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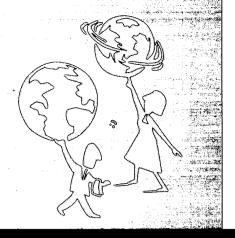
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#### ABSTRACT

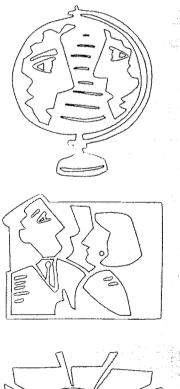
This set of education indicators for the World Bank's East Asia and Pacific Region is designed to provide key policy-oriented data for World Bank staff and clients. The framework is divided into six main chapters: (1) the demographic, social and economic context of education; (2) financial and human resources invested in education; (3) access to education, participation, progression and graduation rates; (4) the learning environment and the organization of schools; (5) student achievement; and (6) social and labor market outcomes of education. The chapters include relevant comparative indicators for developing countries. The education indicators draw on data available from electronic and published data bases within the World Bank, including EdStats, World Development Indicators, Statistical Information Management and Analysis (SIMA), special studies, and Economic Sector Work. They also draw from Organisation for Economic Co-operation and Development (OECD) sources, particularly the World Education Indicators sample, United Nations Agencies, especially UNESCO and the United Nations Development Program, United States Agency for International Development (USAID) Global Education Database, International Labor Organization, International Monetary Fund, Third International Mathematics and Science Study (TIMSS), and client country information systems. The following countries are included: Australia, Cambodia, China, Fiji, Hong Kong, Indonesia, Japan, Kiribati, Korea DPR, Republic of Korea, Lao PDR, Malaysia, Marshall Islands, Federated States of Micronesia, Mongolia, Myanmar, New Zealand, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Thailand, Tonga, Vanuatu, and Vietnam. Depending on availability, data were collected with a periodicity of five years, starting in 1980 through 1995 and including the last available year. Indicators include economically active population by gender and level of educational attainment; educational attainment by age, gender, and rural or urban areas; employment ratios of youth by level of educational attainment; net enrollment by income quintile; and fertility rates by level of education. (BT)





# EDUCATION INDICATORS FOR EAST ASIA AND PACIFIC

Clementina Acedo and Mitsue Uemura with Christopher J. Thomas, Yoko Nagashima, Kathy Li Tow Ngow



SO 032 787

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#### Introduction

#### Framework:

This set of education indicators for the World Bank's East Asia and Pacific Region is designed to provide key policy-oriented data for World Bank staff and clients.

The framework is similar to the thematic organization of OECD's "Education at Glance" series in that it is divided into the following six main chapters: the demographic, social and economic context of education; financial and human resources invested in education; access to education, participation, progression and graduation rates; the learning environment and the organization of schools; student achievement; and social and labor market outcomes of education.

Within these chapters we have also included relevant comparative indicators for developing countries and adapted others to data availability. For instance, in the chapter on the demographic, social and economic context of education, we included country income level, human development index level, and the adult illiteracy rate. Another departure from the OECD framework is that countries were organized in three groups by low income, middle income and high income economies.

#### Sources:

The education indicators draw on data available from electronic and published data bases within the World Bank, including EdStats, World Development Indicators, SIMA, special studies and Economic Sector Work.

They also draw form OECD sources, particularly the World Education Indicators sample, United Nation Agencies, especially UNESCO and the United Nations Development Program, USAID's Global Education Database, the International Labor Organization, the International Monetary Fund, TIMSS, and client country information systems.

#### Coverage:

The following countries are included: Australia, Cambodia, China, Fiji, Hong Kong, Indonesia, Japan, Kiribati, Korea DPR, Rep. of Korea, Lao PDR, Malaysia, Marshall Islands, Fed. States of Micronesia, Mongolia,



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Myanmar, New Zealand, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Thailand, Tonga, Vanuatu and Vietnam.

# Periodicity:

Depending on availability, data were collected with a periodicity of five years, starting in 1980 through 1995 and including the last available year.

#### Rationale:

The indicators are organized under six chapters:

# 1. Demographic, social and economic context of education

In order to interpret differences in educational structures, processes and outcomes between countries, the conditions under which education systems operate need to be taken into account.

Such conditions include social and economic variables of the countries, such as income level, human development index, and adult illiteracy. Demographic variables that illustrate the demand for education at different levels of the education system are included, measured by the relative size of the traditional school age population and the forecasts of the proportion of the population aged 6 to 25 up to the year 2020. And finally, the attainment profiles of different sections of the population and labor force.

# 2. Financial and human resources invested in education

Education can foster economic growth, productivity, personal and social development, and a reduction of social inequality. But, as with any investment, there are costs. This chapter provides a comparative examination of cost patterns across the region.

Indicators include: Educational expenditure relative to GNP; overall level of public resources invested in education, public investment by level of education, public vs. private investment in education; educational expenditure per student in relation to GDP per capita by level of education; expenditure for research and development; public expenditure by resource category; staff employed in education and the ratio of students to teaching staff at the different levels of education.



# 3. Access to education, participation, progression and graduates

A well-educated population has become a defining characteristic of a modern society. Education is seen as a means for instilling personal and democratic values, as well as a means for developing productive and socially capable individuals. In this context, societies have an interest in providing equal gender access to a wide range of educational opportunities.

Information on enrollment rates at various levels of education and on the expected duration of schooling can provide a picture of the structure of the different educational systems. Access, participation, progression and number of graduates at different levels of education also represent achievements and outputs of the educational system.

# 4. The learning environment and the organization of schools

Indicators of financial and human resources devoted to education, such as expenditure per student and student/teaching staff ratios are often used as a proxy for the quality of education. But more needs to be said about the learning environment and the quality and efficiency of schools, about the organization and management of the schools and about the way in which instruction is organized and delivered. Equally, more understanding is needed about whether schools are attracting qualified and committed teachers and supporting them with competitive salaries and sustained professional development.

Many of these aspects are not easily captured as enrollments or expenditure are. It is particularly difficult to monitor the work of teachers since most of it takes place inside the school and classroom. However, a certain number of national, school and classroom level characteristics are starting to be assessed, using data reported by those involved in the schooling process or data drawn from policy statements and guidelines. Nonetheless, much needs to be done in this direction.

At the national level, such characteristics include the distribution of decision-making authority across administrative levels or the salaries and working conditions of teachers, including the teaching load and the hours of work. At the school level, aspects such as the time allocated to different parts of the curriculum, the way in which student progress is monitored, and the way in which students are allocated to classes or groups, can be assessed. We tried to include some of these characteristics depending on available data.



#### 5. Student achievement

There is a growing demand for indicators on student performance in order to make education accountable, to provide tools for school improvement, and to allow standards to be monitored. These indicators focus on student performance in mathematics and science following TIMSS results for fourth and eight grades.

# 6. Social and labor market outcomes of education

Education, social outcomes and the job market are closely connected. On the one hand, education contributes to increased knowledge, which translates into technological improvements and aggregate productivity gains. On the other hand, it increases the skills and knowledge of men and women, allowing them to better accomplish particular tasks and adapt to changing job requirements.

Indicators include economically active population by gender and level of educational attainment; educational attainment by age, gender and rural or urban areas; employment ratios of youth by level of educational attainment; net enrollment by income quintile; and fertility rates by level of education.

# Acknowledgements:

We will like to acknowledge that this is a joint effort of the East Asian Region (EASHD) and the Education Group of the Human Development Network (HDNED), in particular, the Effective Schools and Teachers thematic group and EdStats. The team included Clementina Acedo, Mitsue Uemura (HDNED), Christopher J. Thomas, Yoko Nagashima and Kathy Li Tow Ngow (EASHD).

EdStats will incorporate this set of education indicators in their electronic data base and is funding this publication.

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Director of Education
Human Development Network

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1. Demographic, Social and Economic Context of Education



Table 1.1
East Asia and Pacific Countries by Income Level, 1997

Income Level	East Asia and Pacific Countries	GNP per capita (US\$), 1997
Low-Income Economies	Cambodia	300
	Lao PDR	400
	Mongolia	390
, ,	Myanmar <sup>1</sup>	
	Vietnam	320
Middle-Income Economies	China	860
	Fiji	2,470
	Indonesia	1,110
,	Kiribati	910
	Korea, Dem. Rep. <sup>2</sup>	
,	Malaysia	4,680
	Marshall Islands	1,770
•	Micronesia, Fed. States	1,980
	Papua New Guinea	940
	Philippines	1,220
•	Samoa	1,150
	Solomon Islands	900
	Thailand	2,800
	Tonga	1,830
e e e e e e e e e e e e e e e e e e e	Vanuatu	1,310
High-Income Economies	Australia	20,540
	Hong Kong	25,280
	Japan	37,850
	Korea, Rep.	10,550
	New Zealand	16,480
	Singapore	32,940

Low-income economies: <\$785 Middle-income economies: \$786-9,655 High-income economies: >\$9,556

Source:

World Bank 1998b



<sup>\*</sup> Countries are listed by alphabetical order within the same level of income group.

<sup>&</sup>lt;sup>1</sup> Estimated to be low income (\$785 or less) in World Development Report (WDR).

 $<sup>^{2}</sup>$  Estimated to be lower middle income (\$786 to \$3,125) in WDR.

Table 1.2 Human Development Index, 1995

Country	Human Development Index <sup>1</sup> 1995	Educational Attainment Index <sup>2</sup> 1995	Adult Literacy <sup>3</sup> (Age 15+) (%) 1995	Combined First-, Second- and Third-Level Gross Enrollment Ratio (%) 1995	Life Expectancy at Birth (years) <sup>4</sup> 1995	Real GDP per capita (PPP\$) <sup>5</sup> 1995
Cambodia	0.422	64	65:0	62	52.9	1,110
Lao PDR	0.465	74	<b>56</b> .6	50	52.2	2,571
Mongolia	0.669	73	82.9	<b>53</b> .	64.8	3,916
Myanmar	0.481	71	83.1	48	58.9	1,130
Vietnam	0.560	80	93.7	55	66.4	1,236
China	0.650	76	81.5	64	69.2	2,935
Fiji	0.869	87	91.6	78	72.1	6,159
Indonesia	0.679	77	83.8	62	64.0	3,971
Korea, Dem. Rep.	0.766	88	95.0	75	71.6	4,058
Malaysia	0.834	76	83.5	61	71.4	9,572
Papua New Guinea	0.507	61	72.2	37	56.8	2,500
Philippines	0.677	90	94.6	80	67.4	2,762
Samoa	0.694	90	98.0	74	68.4	2,948
Solomon Islands	0.560	57	62.0	47	71.1	2,230
Thailand	0.838	81	93.8	55	69.5	7,742
Vanuatu	0.559	60	64.0	52	66.3	2,507
Australia	0.932	92	99.0	79	78.2	19,632
Hong Kong	0.909	- 84	92.2	67	79.0	22,950
Japan	0.940	92	99.0	78	<b>79.9</b>	21,930
Korea, Rep.	0.894	93	98.0	83	71.7	11,594
New Zealand	0.939	97	99.0	94	76.6	17,267
Singapore	0,896	83	91.1	68_	77.1	22,604

Source: UNDP 1998



<sup>&</sup>lt;sup>1</sup> The Human Development Index is based on three indicators; longevity, as measured by life expectancy at birth; educational attainment, as measured by a combination of adult literacy (two-thirds weight) and the combined first-, second- and third-level gross enrollment ratio (one-third weight); and standard of living, as measured by real GDP per capita (PPP\$).

<sup>&</sup>lt;sup>2</sup> Educational Attainment Index (EAI) is calculated using the following formula:

EAI= [2x(Adult Literacy Rate)+1x(Combined First-, Second- and Third Level Gross Enrollment Ratio)]/3

<sup>&</sup>lt;sup>3</sup> Adult Literacy: The percentage of people aged 15 and above who can, with understanding, both read and write a short, simple statement on their everyday life.

<sup>&</sup>lt;sup>4</sup> Life expectancy at birth: The number of years a newborn infant would live if prevailing patterns of mortality at the time of birth were to stay the same throughout the child's life.

<sup>&</sup>lt;sup>5</sup> Real GDP per capita (PPP\$): The GDP per capita of a country converted into US dollars on the basis of the purchasing power parity of the country's currency. The system of purchasing power parities has been developed by the United Nations International Comparison Programme to make more accurate international comparison of GDP and its components than those based on official exchange rates, which can be subject to considerable fluctuation.

Table 1.3 Adult Illiteracy Rates\* by Gender,1995.

Country	Total (%)	Male (%)	Female (%)
Cambodia 1**	34.7	20.3	46.6
Lao PDR	43.4	30.6	55.6
Mongolia	17.1	11.4	22.8
Myanmar	16.9	11.3	22.3
Vietnam	6.3	3.5	8.8
China	18.5	10.1	27.3
Fiji	8.4	6.2	10.7
Indonesia	16.2	10.4	22.0
Kiribati 1 ***	10.0		-
Malaysia	16.5	10.9	21.9
Marshall Islands 1 ***	9.3		
Papua New Guinea	27.8	19.0	37.3
Philippines	5.4	5.0	5.7
Thailand	6.2	4.0	8.4
Vanuatu 1 ***	30.0		
Hong Kong	7.8	4.0	11.8
Korea, Rep.	2.0	0.7	3.3
Singapore	8.9	4.1	13.7

\*Adult illiteracy rate is estimated number of adult illiterates (15 years and over) expressed as a percentage of the population in the corresponding age-group (UNESCO World Education Report).

Data in itelic refer to years other than 1995 (see below).

\*\* 1994 data \*\*\* 1990 data.

Sources:

All data except those numbered (see below) are from UNESCO 1998b

<sup>1</sup> World Bank, Statistical Information Management and Analysis (SIMA)



Table 1.4 Educational Attainment by Gender, Age, and Level of Education, Various Years from 1980 to 1996

[						Hiç	hest Level	Attained		
Country	Year	Sev	Age	Total	No	First L	.evel	Secondary	Level	Post
Country	1001	062	Group	Population	Schooling	Incompleted	Completed		S-2	Secondar
ļ					(%)	(%)	(%)	(%)	(%)	(%)
Cambodia	1993	•	5+	8,664,920	30.5	47.0	>	16.2	4.1	
		F	5+	4,571,987	37.8	46,1	>	12.1	2.7	0.5
Myanmar	1983	MF	15-24	7,023,736	30.2	42.2		25.8		1.8
,			25-64	12,607,749	53.5	28.9		15.4		2.2
		F	15-24	3,567,828	32.5	44.8		21.0		1.0
	ų,	λ,	25-64	6,402,293	58.1	30.3	:	9.9		1.6
Vietnam	1989	MF	15-24	12,819,851	6.3	80.8		12.3	•	0.4
			25-54	19,867,221	8.2			13.4		3.2
		F	15-24	6,563,565	6.7	80.6	٥	12.0		0.4
			25-54	10,569,925	1			11.2		2.3
China	1990	MF	15-24	245,919,500	5.7	35.2	the fallent ways also received to	57.3		1.
			25-64	508,596,200	23.7	36.1		38.0		2.2
Fiji	1986	MF	15-24	145,678	1.6	15.6	17.2	ł		
			25-64	267,733		35.0	25.0	26.6		4.0
		F	15-24	73,000	1.6	13.5	16.9	65.3		2.
			25-64	137,551	12.4	34.5	26.3	23.4		3.9
Indonesia	1990	MF	15-24	35,055,345	19.0	39.5		40.8		0.0
			25-64	71,746,574	51.8	27.7		18.0		2.
• •		F	15-24	17,951,600	21.8	40.3		37.2		0.
		'	25-64	36,352,602	60.0	25.0		13.4		1.0
Malaysia	1996	MF	25+	9,654,600	16.7	13.0	20.6	19.3	23.5	
_		F	25+	4,766,700	23.6	13.3	19.1	17.2	21.4	5.:
Papua New Guinea	1980	MF	15-24	558,762	46.1	14.7	23.2	15.0	1.0	
		1	25+	1,135,783	82.6	8.2	5.0	3.9	0.3	· -
		F	15-24	256,742	55.1	13.2	20.3	10.9	0.4	J
			25+	551,886	87.3	7.2	3.6	1.8	0.0	-
Philippines	1995	MF	25+	42,700,000	3.7	20.7	15.1	17.2	21.2	21.
, ,ppc		F	25+	21,339,000					20.2	
Samoa	1981	MF	15-24	35,277	, 1.3	84.8	2.9	3.6	6.6	s o.
			25-64	44,207					24.8	
		F	15-24	16,830	1.2	88.2	2.8	2.5	4.7	, o.
			25-64	22,142					24.8	
Thailand	1990	MF	6+	49,076,100	10.7	69.6	;>	13.7	>	5.



						Hiç	hest Level	Attained		
Country	Year	Sex	Age	Total	No	First L	evel	Secondar	y Level	Post
			Group	Population	Schooling	Incompleted	Completed	S-1	S-2	Secondar
	İ		i i		(%)	(%)	(%)	(%)	(%)	(%)
Tonga	1986	MF	25-34	10,855	6.0	16.0	>	72.0	>	4.1
			35+	23,056	11.3	43.4	>	41.2	>	2.2
		F	25-34	5,672	5.7	15.9	>	73.3	>	3.4
			35+	12,065	12.4	45.8	>	38.7	>	1.3
Vanuatu	1989	MF			67.6	24.4		5.2	0.6	0.5
		F			70.9	23.2		4.2	0.4	0.4
Hong Kong	1996	MF	25+	4,197,007	11.4	26.9	>	18.6	28.6	14.5
Japan	1990	MF⊚	15-24	18,807,208	0.1	- 19.4	:	64.9		15.0
			25-64	67,096,768	0.1	26.5		47.9		23.9
			65+	14,894,595	0.8	65.2	>	25.3	>	6.9
		F	15-24	9,216,794	0.1	16.0		65.8		17.6
			25-64	33,718,670		27.1		51.3		19.9
			65+	8,906,958	1,1	68.1	جيــ	25.5	>	3.4
Korea, Rep.	1995	MF	20-24	4,161,474		0.0	0.4	3.1	51.8	44.4
			25-64	23,525,456	3.6	0.7	15.9	16.7	39.8	23.2
		F	20-24	2,021,400	0.1	0.0	0.4	2.8	55.8	40.7
			25-64	11,703,470	5.7	1.0	20.6	19.0	38.1	15.6
New Zealand	1991		25+	1,992,354	0.0	36.8	>	16.3	7.8	39.1
		F	25+	1,029,375	0.0	39.5	>	19.6	8.0	32,9

General Note:---> persons whose level of education has not been stated are included in the total population. Their percentage distribution, although not shown in the table, can be derived by subtracting the sum of the other percentage distribution from 100.

China ---> Not including persons whose level of education is unknown.

Japan --> The distribution by level of education does not take into account those still attending school.

Singapore —> Second cycle of secondary education includes "polytechnic". Post-secondary education refers to universities only.

The six levels of educational attainment are conceptually based on the categories of the International Standard Classification of Education and defined as follows:

No Schooling. This term applies to those who have completed less than one year of schooling.

First level not completed. This category includes all those who completed at least one year of education at the first level but who did not complete the final grade at this level. The duration of education at the first level may vary depending on the country.

First level completed. Those who completed the final grade of education at the first level but did not go on to second level studies are included in this group.

- S-1: Entered second level, first stage. This group comprises those whose level of educational attainment was limited to the first stage of education at the second level.
- S-2. Entered second level, second stage. This group consists of those who moved to the second stage of second level education but did not proceed to studies at the third level.

Post-secondary. Anyone who undertook third level studies, whether or not they completed the full course, would be counted in this group.

Sources:

All data except those for Vanuatu are from UNESCO 1998a and 1997 Vanuatu: World Bank 1995d



Table 1.5
Population Projections for School-Age Groups from 2000 to 2020 (thousands)

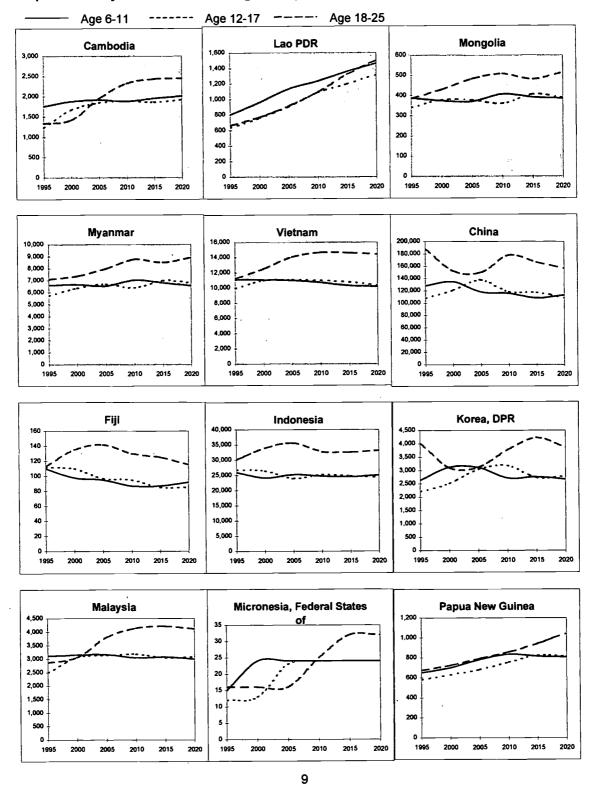
	Estimated		•	Projected		
·	1995	2000	2005	2010	2015	2020
Cambodia	<del></del>	# · · ·				
Primary school entry age, 6	316	321	314	320	333	341
Primary school age, 6-11	1,761	1.882	1,916	1,886	1,95 <b>9</b>	2,014
Secondary school age, 12-17	1,230	1,674	1,843	1,895	1,861	1,923
Age 18 - 25	1,338	1,419	1,949	2,325	2,432	2,443
ao, PDR		* Maria	* f	•	· .	
Primary school entry age, 6	147	179	199	219	238	256
Primary school age, 6-11	803	960	1,134	1,235	1,358	1,466
Secondary school age, 12-17	634	758	905	1,087	1,196	1,315
Age 18 - 25	663	767	914	1,093	1,319	1,504
Mongolia						
Primary school entry age, 6	67	<b>259</b>	69	65	67	61
Primary school age, 6-11	388	375	370	407	392	386
Secondary school age, 12-17	2 * * *	378	378	360	406	390
Age 18 - 25	385	430	482	508	481	51 <b>5</b>
Myanmar				* *		•
Primary school entry age, 6	1,190	1,055	1,173	. 1,144	1,125	1,061
Primary school age, 6-11	6,621	6,664	6,548	7.036	6.804	6.582
Secondary school age, 12-17		6,372	6,705	6,398	6.983	6,798
Age 18 - 25	7,112	7,366	7,982	8,761	8,509	8,910
Vietnam						
Primary school entry age, 6	1,861	1,844	1,811	1,745	1,679	1,744
Primary school age, 6-11	11,087	11,071	10,986	10,708	10,297	10,191
Secondary school age, 12-17		10,967	11,059	10,989	10,755	10,360
Age 18 - 25	11,204	12,510	14,049	14,661	14,597	14,418
China	alan kanan alaman aa	man kinga a manananan mananan		and the second	. in presentation	erika garanana da eren
Primary school entry age, 6	24,974	19,981	20,042	17,940	18,641	19,040
Primary school age, 6-11	128,504	134,855	117,997	115,831	108,359	113,026
Secondary school age, 12-17	107,947	121,139	137,634	118,169	117,387	108,052
Age 18 - 25	188,835	152,172	149,854	177,573	166,734	156,133
Fiji	Ĭ					
Primary school entry age, 6	17	16	15	14	15	16
Primary school age, 6-11	110	98	95	87	87	92
Secondary school age, 12-17	112	110	97	95	85	85
Age 18 - 25	113	135	142	130	125	115
Indonesia						
Primary school entry age, 6	3,909	4,211	4,160	4,056	4,160	4,199
Primary school age, 6-11	25,974	24,151	25,263	24,710	24,540	25.068
Secondary school age, 12-17		26,548	23,949	25,184	24,760	24,394
Age 18 - 25	30,105	33,929	35,588	32,735	32,562	33,098
Korea, DPR	1					
Primary school entry age, 6	496	546	455	472	437	465
Primary school entry age, 6 Primary school age, 6-11			3,109	2,721	2,762	2.670
	2,638	3,125 2,515	3,109	3,180	2,762	2,784
Secondary school age, 12-17 Age 18 - 25	2,208 4,032	2,515 3,10 <b>3</b>	3,120	3,767	4,221	3,870
<i>,</i>		-				
Malaysia Primary school entry age, 6	520	538	506	516	504	493
					3,071	2,993
Primary school age, 6-11	3,109	3,157	3,164	3,042		•
Secondary school age, 12-17		3,062	3,139	3,186	3,040	3,075
Age 18 - 25	2,861	3,059	3,802	4,145	4,216	4,114



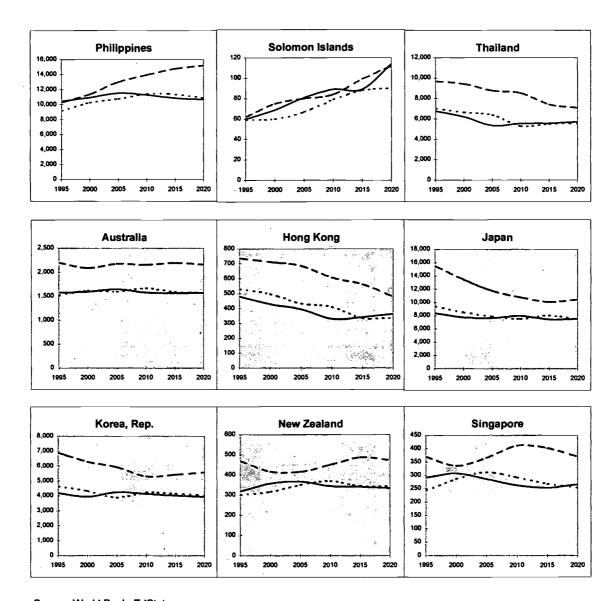
	Estimated	•		Projected		
	1995	2000	2005	2010	2015	2020
Micronesia, Federal States of						_
Primary school entry age, 6	4	4	4	4	4	4
Primary school age, 6-11	15	24	24	24	24	24
Secondary school age, 12-17	12	13 46	23	24	24	24
Age 18 - 25	16	16	16	25	32	32
Papua New Guinea	440	404	440	400		
Primary school entry age, 6	113	124	140	138	134	137
Primary school age, 6-11	653	701	782	836	816	808
Secondary school age, 12-17 Age 18 - 25	578	632	683	755 950	826	814
•	674	723	793	859	943	1,046
Philippines	4 770	4.007	4 005	4.040	4 000	. =0.
Primary school entry age, 6	1,772	1,897	1,925	1,812	1,828	1,701
Primary school age, 6-11	10,441	10,941	11,530	11,293	10,863	10,679
Secondary school age, 12-17	9,157	10,252	10,755	11,434	11,377	10,853
Age 18 - 25	10,272	11,390	12,970	13,943	14,783	15,197
Solomon Islands	· ·	46				
Primary school entry age, 6	10	12	14	15	14	27
Primary school age, 6-11	60	69	81	89	89	114
Secondary school age, 12-17	59	60	67	79	88	90
Age 18 - 25	62	75	80	84	99	112 -
Thailand						
Primary school entry age, 6	1,172	911	928	913	958	936
Primary school age, 6-11	6,764	6,223	5,330	5,541	5,570	5,716
Secondary school age, 12-17	7,037	6,642	6,378	5,280	5,487	5,515
Age 18 - 25	9,672	9,415	8,768	8,532	7,412	7,088
Australia			222		- A-	- Like
Primary school entry age, 6	252	275	265	261	262	262
Primary school age, 6-11	1,575	1,591	1,644	1,576	1,567	1,571
Secondary school age, 12-17	1,524	1,612	1,594	1,663	1,589	1,568
Age 18 - 25	2,198	2,087	2,170	2,152	2,193	2,159
Hong Kong			<u>. L</u>		1	<
Primary school entry age, 6	71	72	57	55	60	61
Primary school age, 6-11	481	429	395	330	342	364
Secondary school age, 12-17	530	498	432	410	336	337
Age 18 - 25	737	712	686	607	563	481
Japan_						
Primary school entry age, 6	1,343	1,237	1,364	1,237	1,274	1,219
Primary school age, 6-11	8,382	7,741	7,637	7,960	7,451	7,536
Secondary school age, 12-17	9,435	8,521	7,862	7,527	8,036	7,452
Age 18 - 25	15,494	13,473	11,767	10,798	10,089	10,454
Korea, Rep.		e de	10 TO	**	7.4	
Primary school entry age, 6	616	704	6 <b>98</b>	677	661	646
Primary school age, 6-11	4,182	3,940	4,240	4,130	4,012	3,926
Secondary school age, 12-17	4,629	4,321	3,878	4,224	4,150	4,031
Age 18 - 25	6,895	6,284	5,927	5,294	5,416	5,573
New Zealand	20,188,246.		176.0	di e	\$	
Primary school entry age, 6	55	62	58	58	55	57
Primary school age, 6-11	318	357	366	344	341	334
Secondary school age, 12-17	300	316	350	369	345	343
Age 18 - 25	469	417	415	450	487	474
Singapore	1 2			31.	* ***	,
Primary school entry age, 6	53	49	45	41	43	45
Primary school age, 6-11	291	307	286	262	253	266
Secondary school age, 12-17	242	286	311	292	268	253

Source: World Bank, EdStats

Figure 1
Population Projections for School-Age Groups from 2000 to 2020, (thousands)







Source: World Bank, EdStats

Table 1.6 Distribution of the Population and of the Labor Force, 25 to 64 Years of Age, by Level of Educational Attainment, 1996

			Population					Labor Force		
Country	Below Upper Secondary Education (%)	Upper Secondary Education (%)	Non- University Tertiary Education (%)	University- Level Education (%)	Total (%)	Below Upper Secondary Education (%)	Upper Secondary Education (%)	Non- University Tertiary Education (%)	University- Level Education (%)	Total (%)
Indonesia	81	15	2	2	100		'			
Malaysia	. 29	<b>5</b> 6	×	7	100	62	53	×	တ	100
Thailand	87	ო	သ	9	100	98	က	S	7	100
Australia	£ <del>2</del>	83	<b>.</b>	15	9	37	32	-	1	100
Korea	93	45	×	19	100	38	4	<b>×</b> .*	72	9
New Zealand	40	35	14	11	100	35	38	15	13	100

x Data included in another category/column of the table.

Source: OECD 1998

Note:

\_

2. Financial and Human Resources Invested in Education



Table 2.1 Total Public Expenditure on Education As a % of GNP, and Public Expenditure Per Student by Level of Education (% of GNP per capita), 1980-1996.

1990.																					Γ
	^	Alic A	Public Spending		on Education				ublic E	Public Expenditure per Student by Level of Education (% of GNP per capita)	ure per	Studer	ıt by Le	vel of E	ducatio	lo %) u	GNP	er cap	ita)		
	•		Total (%				1	هَ	Primary				Sec	Secondary				Ter	Tertiary		
Country	1980	1985	1990	1994	1995	1996	1980	1985	1990	1995. 1	1996 1	1980 1	1985 1	1990 1	1995 19	1996 1980		1985 19	1990 1	1995 19	1996
Cambodia *						2.9							22.6								
Lao PDR			2.3		2.4	2.5	٠		6.9	. : ;	-		•	24.5	25.0		٠,	Ó	100		9.09
Mongolia	٠	7.8	8.6	5.2	9.6	6.4		63.8	73.3					• •	35.6 4	46.5	<b>ඊ</b>	96.4 13	132.0 6	68.3	52.5
Myanmar	1.7	2.0	2.4		1.3		•		y 35.		,,,	-		•	10.0		<u>ଜ</u>	36.2		7	.^.
Vietnam	e .		1.8	2.7	2.7					* : ;		;	:	. :		1			,	***	
China	2.5	2.6	2.3	2.6	2.3	2.3	3.8	4.6	5.3	5.3	6.5		14.0	-	14.0	24	245.4 13:	133.7 10	102.1 6	66.1	62.9
	5.9	6.0	4.7		5.4		16.2	18.9	12.4					25.8		<u>છ</u>	37.4		79.8		
indonesia *	1.7	3.7	7:	1.3	1.4	4.		12.6					23.3	5.9	9.9			<del>-</del>	18.7 1	12.9	
Kiribati	7.5	6.7	9.0	6.3	6.3	_	14.6		12.7												
Malaysia	9.0	9.9	5.4	5.3	5.3	5.2	12.0	15.2	10.5	11.2		-	21.0		23	<u>+</u>	148.9 130	138.2 12	122.9	12	
Micronesia, Fed. Sts.									73.3												
Papua New Guinea *	4.7	6.9						29			_		92								
Philippines	1.7	4.	2.9	2.5	2.2	3.2	5.8	4.9	8.6			4.3	2.2			<del></del>	13.8	11.1	11.3		_
Samoa			4.2													_					
Solomon Islands	5.6	4.7	4.2						14.6							_					
Thailand *	3.4	3.6	3.6	3.8	4.2		8.8	15.5	13.4	16.0	_		15.3		=	9		39.9	(*)	30.7	
Tonga	•	4.4	4.8		4.7		10.5	10.2	10.5				7.9			<i>ب</i> ن	54.4 9	98.1			
Vanuatu			4.4	5.1	4.9				15.6	:		2		50.7	<b>4</b> 9		1-	1	-	:	
Australia	5.5	5.6	5.4	5.6	5.6	:	! ! ·	èlè:	17.4	17.4		44.7	37.8	38.1	18.8	<u>د</u>	51,3 6	66.2	55.7	ස	
Hong Kong	2.4	2.8	2.8	2.8	2.8		7.0	8.0	8.0	8.0		8.2	Ŧ		12.5	4	45.5 4	44.3	51.3	25	
Japan	5.8		4.7	3.8	3.8		14.8	14.3	14.9	19.3		16.6	16.8		19	- 2	21.0 5	52.2 4	49.0	16	
Korea. Rep.	3.7	4.5	3.5	3.7	3.7		10.4	13.9	12.0	12		9.2	10.7	6.6	12.9	_	15.9 1	10.9	5.8	0.9	
New Zealand	5.8	4.7	6.5	6.7	6.7		15.1	15.8	17.7	16.6	17.6	13.6	11.4	15.5	23	23.3	59.8 4	41.8	9.02	66	44.8
Singapore	2.8	4.4	3.1	3.3	က		6.8	9.4	8.2	7.8	-	14.0	11.0		13	4	40.6 5	59.8	37.5	28.2	1

Sources:

Data in italic refer to the most recent data within two years of the indicated year.

\* 1985 data on Primary, Secondary and Tertiary refer to "mid-1980s", year not specified (source: Tan and Mingat 1992)

All data except those specified below are from World Bank, EdStats

Cambodia: 1996 data on Total (Total Public Expenditure on Education As a % of GNP) from UNESCO 1998a. 1985 data from Tan and Mingat 1992. Mongolia: 1995 data on Total from UNESCO 1998b. 1996 data on Total from UNESCO 1998a. 1985 and 1990 data on Primary from World Bank, Lao PDR: 1995 data from UNESCO 1998b. 1996 data on Total from UNESCO 1998a.

Myanmar: 1994 data from USAID, GED. 1995 data from UNESCO 1998b.

Vietnam: 1990 and 1994 data from USAID, GED. 1995 data from UNESCO 1998b.

Fiji: 1985 data on Total from USAID, GED. 1995 data on Total from UNESCO 1998b. 1990 data on Primary, Secondary and Tertiary from World China: 1995 data on Total from UNESCO 1997. 1996 data on Total from UNESCO 1998a. All data on Secondary from UNESCO 1998b.

Indonesia: 1985 data from Tan and Mingat 1992. 1995 and 1996 data on Total from UNESCO 1998a.

Kiribati: 1980 data on Total from USAID, GED. 1994 data from UNESCO 1997. 1995 data from UNESCO 1998b.

Malaysia: 1995 data on Total, Secondary and Tertiary from UNESCO 1998b. 1996 data on Total from UNESCO 1998a.

Papua New Guinea: 1980 data from Lockheed, Verspoor and et al. 1991. 1985 data from Tan and Mingat 1992. Philippines: 1994 and 1996 data from World Bank 1999a. 1995 data from UNESCO 1997.

Solomon Islands: 1985 data from USAID, GED

Thailand: 1985 data from Tan and Mingat 1992. 1995 data on Total from UNESCO 1997. 1995 data on Secondary from UNESCO 1998b.

Vanuatu: All data on Total from UNESCO 1997. Data on Primary from World Bank, SIMA. 1995 data on Secondary from UNESCO 1998b. Tonga: 1995 data from UNESCO 1998b

Australia: 1994 data on Total from UNESCO 1998a. 1995 data on Total and Tertiary from UNESCO 1998b.

Hong Kong: 1980, 1985, 1990 and 1995 data on Total from UNESCO 1997. 1994 data on Total from USAID, GED. 1985 data on Secondary and 1995 data on Tertiary from UNESCO 1998b.

Japan: 1994 data on Total from USAID, GED. 1995 data on Total, Secondary and Tertiary from UNESCO 1998b.

Korea, Rep.: 1994 data on Total from UNESCO 1997. 1995 data on Total from UNESCO 1998b.

Vew Zealand: 1994 data from UNESCO 1997. 1995 data on Total, Secondary and Tertiary from UNESCO 1998b.

Singapore: 1995 data on Total from UNESCO 1997. 1980 and 1985 data on Secondary from Komenan 1987. 1995 data on Secondary from

Total Public Expenditure on Education As a % of Total Government Expenditure, and Current Public Expenditure by Level of Education (%), 1980-1996. Table 2.2

	CO CONTRACTOR OF THE PARTY OF T					
	lotal Public Expenditure on Education		Current Public Expend	Current Public Expenditure by Level of Education (%)	(%)	
	As a % of Total Government	Primary Level	Secondary Level	Tertiary Level	Unspecified	pa
Country	Expenditure			1007 1007	4000 4000	1004 1005
	1960 1985 1990 1994 1995 1996 1980 1985 1990 1994 1995 1980 1985 1990 1994 1995 1990 1994 1995 1980 1982 1990 1994	1980 1985 1990 1994 1995	1980 1985 1990 1994 1995	1980 1985 1990 1994 1995	0881 C881 0881	286
Cambodia		55.9 52.8	28.4 26.4	2.0	- 15	
Lao PDR	1.3 4.5 7.2 12.4 12.4	43.7 46.0 51.6	34.7 28.8 26.4	5.8 8.4 7.9	15.8	17.0
Mondia	ဖ	•	52.6 51.2 48.9 63.7 56.0	16.6 17.3 14.5 17.8 14.3 20.5	20.5 20.8 22.7	0.2 9.8
Wanmar		7.74	A 40.3	7117		
Vietnam	75 7.4	38 30	28 38	17 13	9	16
China	) ( ) (	35.5 36.1	34.3 33.2	20.0 21.8 18.6 16.5 75.6 18.1	15.5 14.3	15.2 14.8
		50.5 54.1	37.0 45.9	0.6	1.6	
Indonesia	8.9 17.6 11.8 15.1 7.8 7.9	52.7 51.6 52.6 52	30.3 26.3 30.3 29.7	11 13.4 10.3 11.4	6 11.4	6.7 6.8
Kiribati		50.5 51.9	28.7 30.7	7.9 17.4		
Malaysia	14.7 16.3 18.3 15.5 15.5	35.0 37.8 34.3 35.1	34.0 37.1 34.4 41.2	12.4 14.6 19.9 16.8	2.0 0.5 0.2	2.1
Marshall Islands	. 16.6					
Papua New Guinea   14.2 17.9 16.3	14.2 17.9 16.3	45.0	18.0	28.0		
Philippines	9.1 7.4 10.1 13.3 15.4 16.2 61.4	61.4 63.9 51.7 60.8 62.4 15.7	15.7 10.1 30.9 19.9 20.8	22.1 22.5 17.4 19.2 16.8	0.1 0.0 0.0	0.0 0.0
Samoa	10.7 17.5	52.6	25.2			
Solomon Islands	11.2 12.4 14.6	14.6 44.1	42.2	13.3	0. 4	
Thailand	20.0 18.9 20.1	57.8 58.4 56.0 51.0 49.6 16.7	21.1	21.6 21.5 23.6 19.3 13.2 14.6 16.5 19.4	6.0 2.2 2.3	2.5 4.3
Tonga	11.6 16.1 17.3 18.3	55.0 44.7	25.4 30.9	14.7 17.9		
Vanuatu	17.9 21.0 23.2	59.8 57.9	26.6 33.0	3.4 6.4		E Cable Page
Australia	14.8 12.8 14.8 12.9 13.6	29.9	67.0 60.3 57.4 39.6	22.6 30.5 32.0 29.8	2.7 4.4 4.8	
Hona Kona	14.6 18.4 17.4 17.0	33.7 31.4 29.1 21.4	35.7 37.9 40.7	35.0 24.6 25.1 28.8 37.1	6.1 4.6 0.4	2.9
Japan	19.6 10.8 10.8	38.2 37.0	34.8 41.8	12.1	16.0	
Korea Rep.	16.6 22.3	49.9 46.7 44.3 44.5 44.5	49.9 46.7 44.3 44.5 44.5 33.2 36.7 34.1 34.4 36.6	8.7 10.9 7.4	8.0 0.1 0.6 1.2	
New Zealand	-	35.4 36.9 26.9 23.7 24.5	24.5 29.7 28.5 25.3 40.7 40.3	40.3 28.3 28.3 37.4 29.4 29.1 2.6	2.6 2.2 3.0	
Singapore	7.3 20.2 18.2 23.5 23.4	35.8 30.5 29.6 25.7	36.9 36.5	34.6 17.1 27.9 29.3 34.8	3.1 0.4	
Notes:	Data in italic refer to the most recent data within two years of the indicated year	data within two years of the indicate	ed year.			

China: 1995 data on Expenditure by Levels of Education and unspecified refer to 1996 data.

Lao PDR: 1995 data on Expenditure by Levels of Education and unspecified refer to 1996 data. The data on Secondary level include lower and upper secondary levels and teacher training.

Mongolia: 1985, 1990 and 1994 data on Total (Total Public Expenditure as a % of Total Govemment Expenditure) refer to expenditure of the Central govemment only. 1995 data on Expenditure by Levels of Education and unspecified refer to 1996 data.

Myanmar. 1995 data on Total refers to expenditure of the Ministry of Education only.

Vietnam: 1990 data on Expenditure by Levels of Education and unspecified refer to 1991 data.

Fili: 1994 data refer to 1993 data.

education, expenditure to policy & administration, conduct and provision of exams, curriculum, texts, teacher resources, and library & archival services are not included in Kiribati: For the 1995 data on Expenditure by Level of Education, the percentages are calculated for this study, using the data from the source below. Expenditure on Secondary level includes provision of secondary education Government schools, assistance to mission schools (identified as secondary schools), and expenditure on vocational and technical institutions. Expenditure on Tertiary includes teacher training and contribution to University of South Pacific in Fiji. Support to non-formal any categories in this study

Malaysia: 1990 and 1994 data on Total refer to expenditure of Ministry of education only.

elementary, secondary, and higher education, for this study. Thus, expenditure to technical/vocational, others, and DECS Central Administration, though appear on the Philippines: For the data on Expenditure by Level of Education for the years of 1990, 1994, and 1995, the percentages are calculated, using expenditure to only original source, are not included in this table.

All data except those specified below are from USAID, GED.

Cambodia: All data from World Bank 1998c

Lao PDR: 1980 and 1985 data on Total (Total Public Expenditure on Education As a % of Total Govemment Expenditure) from Lockheed, Verspoor et al. 1991. 1990 data on Total from World Bank 1995b. 1994 and 1995 data on Total from World Bank 1997a. 1990 and 1994 data on Expenditure by Level of Education from World Bank 1997a. 1995 data on Expenditure by Level of Education from UNESCO 1998a.

Mongolia: All data on Total from UNESCO 1998a. 1980, 1985, 1990 and 1995 data on Expenditure by Level of Education from UNESCO 1998a.

Myanmar: 1980 and 1985 data on Total from Tan and Mingat 1992. 1995 data on Total from UNESCO 1998b.

Vietnam: 1995 data on Total from UNESCO 1998b. All data on Expenditure by Level of Education from World Bank 1998g.

China: 1996 data on Total from UNESCO 1998a. 1995 data on Expenditure by Level of Education from UNESCO 1998a.

Fiji: 1996 data on Total from World Bank 1998e. 1994 data on Expenditure by Level of Education from World Bank 1995a

Indonesia: 1985, 1990 and 1994 data on Total from World Bank 1998d. 1995 and 1996 data on Total from UNESCO 1998a. All data on Expenditure by Level of Education from World Bank 1998d Kiribati: 1995 data on Total from UNESCO 1998b. 1996 data on Total from World Bank 1998f. 1995 data on Expenditure by Level of Education from World Bank 1998f Malaysia: 1995 data on Total from UNESCO 1998b.

Marshal Islands: World Bank 1998e.

Papua New Guinea: 1980 data on Total from Lockheed, Verspoor et al. 1991. 1985 data on Total from Tan and Mingat 1992. 1990 data on Total from World Bank 1992. Data on Expenditure by Level of Education from Tan and Mingat 1992.

Philippines: 1994, 1995 and 1996 data on Total from World Bank 1999a. 1990, 1994 and 1995 data on Expenditure by Level of Education from World Bank 1999a. Samoa: 1996 data from World Bank 1998e.

Solomon Islands: 1996 data from World Bank 1998e.

Thailand: 1980 data on Expenditure by Level of Education from Komenan 1987. 1995 data on Expenditure by Level of Education from UNESCO 1998a.

Tonga: 1995 data from UNESCO 1998b. 1998 data from World Bank 1998e.

Vanuatu: 1990 and 1994 data on Total from World Bank 1995d. 1995 data on Total from World Bank 1998e.

Australia: All 1994 data from UNESCO 1998a. 1995 data from UNESCO 1998b.

Japan: 1980 data on Total from Lockheed, Verspoor et al. 1991. 1995 data on Total from UNESCO 1998b. 1980 data on Expenditure by Level of Education from Komenan 1987. 1994 data on Expenditure by Level of Education from UNESCO 1998a.

Korea, Rep.: 1980 and 1985 data on Total from Tan and Mingat 1992. 1990 data on Total from Republic of Korea, Ministry of Education 1997. 1995 data on Total from UNESCO 1998a. 1995 data on Expenditure by Level of Education from UNESCO 1998a

Vew Zealand: 1995 data on Total from UNESCO 1998b. 1995 data on Expenditure by Level of Education from UNESCO 1998a.

Singapore: 1985 data on Total from World Bank 1999b.

Table 2.3 a
Distribution of Public and Private Sources of Initial Funds\* for Educational Institutions, 1995

	· ·	Secondary ation	Tertiary E	ducation	i	f Education bined	
Country	Public Sources (%)	Private Sources (%)	Public Sources (%)	Private Sources (%)	Public Sources (%)	Private Sources (%)	
Vietnam Indonesia Malaysia Philippines	46.6	53.4	80.6	19.5	56.8	43.2	
	68.2	31.8	46.3	53.7	64.5	35.5	
  Malaysia	98.0	2.0	96.0	4.0	98.0	2.0	
Indonesia Malaysia Philippines	60.6	39.4	45.7	54.3	60.7	39.3	
Australia	87.0	13.0	73.0	27.0	82.0	18.0	
Japan	93.6	6.3	46.4	53.5	77.2	22.7	
Korea, Rep	75.2	24.8	16.0	<u>.</u> 84.0	59.4	40.6	

\* Initial Funds mean the original source of expenditures before public-to-public or

private-to-public transfers have occurred.

Malaysia: 1996 data Philippines: 1994 data. Japan: 1994 data Korea, Rep.: 1994 data

Percentages for Philippines and Vietnam are calculated for this study, using the raw

data from the sources below.

Sources:

All data except those specified below are from OECD 1998.

Vietnam: World Bank 1998g Indonesia: World Bank 1998d Philippines: World Bank 1999a

Japan: OECD 1997

Korea, Rep.: OECD 1997



Table 2.3 b
Educational Expenditure from Public and Private Sources on Educational Institutions as Percentage of GDP by Level of Education, 1995

	Primary and	Seconda	ry Education	T	ertiary Educ	ation	
Country	Primary and Secondary (%)	Primary (%)	Secondary (%)	All Tertiary (%)	Non- University (%)	University- Level (%)	All Level of Education Combined (including pre-primary and undistributed) (%)
Indonesia			1.4	_			
Malaysia	3.4	1.6	1.8	1.2	0.4	0.8	5.1
Australia	3.7	1.6	2:1	1.8	0.3	1.5	5.6
Japan	3.1	* 1.3	1.7	< 1	0.1	0.9	4.7
Korea, Rep	3.8	1.7	2.2	1.9	0.4	1.5	6.2

Data for Malaysia refer to 1996 data.

Source:

**OECD 1998** 



Table 2.3 c Direct Expenditure for Institutions and Transfers to the Private Sector as a Percentage of Total Government Expenditure on Tertiary Education, 1995

		Transfer to th	ne Private S	Sector for	Educational Purp	oses	
	Direct	Financial A	id to Stude	ents			
Country	Expenditure for Institutions (%)	Scholarships/ other Grants to Households (%)	Student Loans (%)	Total (%)	Transfer and Payments to Other Private Entities (%)	Total (%)	Total (%)
China	100	n	n	n	n	n	100
Malaysia	95	2	3	5	n	5	100
Australia	78	13	9	22	n	22	100
Japan		a			n		
Korea, Rep	97.1	2.6	n	2.9	n	2.9	100
New Zealand	64	14	22	36	а	36	100

a = Data not applicable because the category does not apply

n = Magnitude is either negligible or zero Data for Malaysia refer to 1996 data

Korea, Rep.: 1994 data.

Sources:

All data except those for Korea are from OECD 1998.

Korea, Rep.: OECD 1997.



Table 2.4
Expenditure for Research and Experimental Development (R&D)\*, Various Years from 1985 to 1995

			Expenditure for F	R&D
	Year	As % of GNP	Per Capita, US\$ **	Annual average per R&D Scientist or Engineer, US\$ **
Country Mongolia	1995	1	0.0	1.1
Vietnam <sup>1</sup>	1985	0.4	0.4	1,106.7
China	1995	0.5	2.9	8,101.6
Fiji	1986	0.3	4.4	93,176.1
Indonesia	1995	0.1	1.0	,
Malaysia	1992	0.4	11.4	132,383.3
Philippines ***	1992	0.2	1.8	11,572.2
Thailand	1995	0.1	3.6	30,106.5
Australia	1994	1.7	299.8	94,703.6
Hong Kong	1995	å № .0.3 ÷	69.0	702,509.3
Japan	1994	2.9	1,065.8	168,939.6
Korea Rep.	1994	2.8	220.5	83,636.4
New Zealand	1993	Light was to 1,1 was	128.1	71,947.6
Singapore	1995	1.1	341,5	125,296.4

\* In general, Research and Experimental Development (R&D) is defined as any creative systematic activity undertaken in order to increase the stock of knowledge, including knowledge to devise new applications. It includes fundamental research (i.e. experimental or theoretical work undertaken with no immediate practical purpose in mind), applied research in such fields as agriculture, medicine, industrial chemistry, etc. (i.e. research directed primarily towards a special practical aim or objective) and experimental development work leading to new devices, products or processes.

The measurement of R&D expenditure is calculated on the basis of intramural current expenditure, including overheads, and intramural capital expenditure. The sum of the intramural expenditures incurred by the national institutions provides the total domestic expenditure which is the information presented at the international level.

Source:

UNESCO 1998a



<sup>\*\*</sup> Expenditures, in national currency in the original source, are converted in US\$, according to the official exchange rates in the appropriate years, utilizing the Global Development Finance & World Development Indicators (GDF&WDI) central database in the Statistical Information Management and Analysis (SIMA), the World Bank, except Vietnam (see note 1 below).

<sup>\*\*\*</sup> Provisional or estimated data

<sup>&</sup>lt;sup>1</sup> Expenditures are converted in US\$, based on the exchange rate in the appropriate year from the International Monetary Fund: International Financial Statistics, SIMA, the World Bank.

Table 2.5
Public Expenditure by Purpose, Various Years from 1980 to 1996
Incluments

Country Currency         Country Currency<						Emoluments	o,	П			Wei	Welfare services		
R		Year		Administration Other than Personnel (%)	Administrative Staff (%)		Other Personnel (%)	Total (%)	Teaching Materials (%)	Scholarships (%)	Total (%)	Of which School Meals and Board (%)	Other Expenditure (%)	Subsidies Not Distributed (%)
1992   15,394   5,3   1,1	Leo PDR Kio	1992	15,084 35,505		13.0	65.0	2.0	78.0			0.2	0.0	11.0	0.0
1980	Mongolia	1984	15,384					36.8			7.7	7.6	49.1	•
1986   9,418   7,7   9,618   4,7   9,618   9,518   7,6   9,618   9,6	Myanmar Kyat	1984	4,436	<b>-</b>			- ·	56.8					43.2	
uan         1985         18416         7.6         66.3         5.8         3.3           light         38,872         7. <th></th> <th>1980</th> <th>9.418</th> <th>7.7</th> <th>:</th> <th><i>‡</i></th> <th>•</th> <th>56.1</th> <th></th> <th></th> <th>4.</th> <th></th> <th>23.1</th> <th>1</th>		1980	9.418	7.7	:	<i>‡</i>	•	56.1			4.		23.1	1
1991   38,870   1.   .   .   .   .   .   .   .   .	Yuan	1985	18,416	7.6				55.3 69.7			3.4 ./.		30.3	ì î
1981   58   2.6   6.4  >   86.5   0.2   2.0   1981   1982   1.24   1982   1.24   1982   1.24   1985   1.24   1985   1.24   1985   1.24   1986   1.28		1991	38,870	7				69.7		7.	7		30.3	1
1986   82   124   26   822   3.9   -	Fiji	1981	99	4.0	î			86.5			0.7			6.1
isian Dollar 1995 3,635,290 3 9.1 45.2 6.0 6.0 6.0 5.0 6.0 6.9 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	Dollar	1989	124	2.6				73.5		•	2.2	D:L	14.8	11.7
alian Dollar 1986	Indonesia	1995	3,635,290					84.0					16	
alian Dollar 1986 4 16.1	Kipian	9	C			46.7			4		12.4		22.4	1
a 1980	Auricelian Dellan	1990	?	- q		7.65			7		7.0			•
a 1964 6 17.8 ——> 57.5 — 68.2 3.0 2.1 1.4 1.2 1.9 1.4 1.2 1.2 1.4 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9		1990	4	16.1		3		9.09			6.1	5.9		•
a 1980 2.575 16.4 — 5 57.5 . 68.2 3.0 2.1 14 1985 4,062 2.0 3.1 65.0 . 68.2 3.0 2.1 14 1984 7,821 1.9 1.9 3.6 58.4 — 65.1 1.2 1.2 1.4 1980 27,026 1.2 1.2 1.2 1.2 1.2 1.2 1.3 1.2 1.3 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3		1994	9	17.8				55.1			7.5	•	_	•
1985   4,062   2.0   3.1   65.0   - 68.2   3.0   2.1   144   1994   7,821   1.9   1.9   1.2   1.2   1.4   1.9   1.9   1.9   1.2	Mataysia	1980	2,575		î	57.5					2.7		3.9	11.3
hes 1991 5,552 1.9  1986 4,023 1.2  1986 7,036 1.2  1987 7,036 1.2  1988 1979 3 5.7  1988 1979 3 5.7  1988 1979 3 5.7  1988 1979 3 5.7  1988 1979 4.5  1988 1988 1979 64,702 5.7  1988 1988 1988 6.3  1988 1988 1888 6.3  1988 1988 1988 1988 1988 1988 1988 198	Ringgit	1985	4,062	2.0	3.1	65.0	•	68.2			0.8			15.0
1980 4,023 1.2 61.7 78.4 0.3 7.5 1980 1995 7,026 1.2 7,010 1.4 6.4 11.0 72.3 1.0 84.3 0.7 0.9 0.9 1990 15.867 4.5 7.0 64.5 62.9 7.0 64.3 0.7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	•	1994	5,552 7.821	., T	3.6	58.4	î	62.1			4.3	2.9	4.	
1995 7,026 1.2 61.7 96.1 0.9 0.9 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Philippines	1980	4,023	7				78.4			2.1		11.7	
1990 27,010 1.4 6.4 11.0 72.3 1.0 84.3 0.7 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Peso	1985	7,026	1.2		61.7		8			6.5		13.4	20.6
no lst. Dollar 1999 3 5.7 —> 62.9 . 72.3 3.9 11.1 11.1 1.1 1.1 24	Samoa	1990	41,010	6.4	11.0	72.3	1.0	. 48 . 5.			4.		•	7.3
no lst. Dotlar 1979 3 5.7 ——> 62.9 . 72.3 8.8 11.1 non lst. Dotlar 1991 24	Tala												1	
non Ist. Dollar         1991         24         0.4         71.9         - 72.3         3.9         13.7           d         1985         15.867         4.5         3.8         7.0         4.8         8.3         4.6         4.3           1985         53.830         4.2         3.8         7.0         4.8         8.3         4.2         0.4           1994         108.485         6.3         7.0         61.6         5.0         7.7         4.5         1.1           1995         111.084         8.4         5.1         68.2         4.5         77.8         3.6         2.3           1980         1.339         2.4         8.3         57.8         1.5         67.6         2.4         6.4	Solomon Islands	1979	e	5.7	1	62.9					6.0		2.2	•
d         1980         15,867         4.5         3.8         75.0         4.8         80.3         4.6           1985         33,830         4.2         3.8         7.0         4.2         5.3         80.7         4.2           1990         64,702         5.7         13.5         62.0         5.3         80.7         4.0           1995         111,084         8.4         5.1         68.2         4.5         77.8         3.6           1980         1,339         2.4         0.5         8.3         57.8         1.5         67.6         2.4	Dolomon Ist. Dollar	1991	24		0.4	71.9	•	72.3			10.2	70.7		•
1985         33,830         4.2         3.8         75.0         4.8         83,6         4.2           1990         64,702         5.7         13.5         62.0         5.3         80.7         4.0           1994         111,084         8.4         5.1         68.2         4.5         77.8         3.6           1980         1,339         2.4         6.5         77.8         3.6         3.5           1986         4         0.5         8.3         57.8         1.5         67.6         2.4	Thailand	1980	15,867		,	i		80.3			5.3			
1994 108485 6.3 7.0 61.6 5.0 7.7 4.5 1995 111,084 8.4 5.1 68.2 4.5 77.8 3.6 1985 4 0.5 67.8 1.5 67.6 2.4	Baht	1985	33,830		e. c.	75.0	44. n	83.6			. o	0.0		o 6
1994 100,463 6.3 7.0 01.0 0.0 7.0 7.0 7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1		200	707'60		1 2	0.20	9 4	4 6						
ga 1986 1,339 2.4 8.3 57.8 1.5 67.6 2.4 2.4		1995	111,084		5.1	68.2	. 4. 5. 3.	77.8			0.5		1.5	5.9
1985   4 0.5 8.3 57.8 1.5 67.6 2.4	Tonga	1980	1,339					76.6	e		7		9.1	,
	Pa'anga	1985	4	0.5	8.3	57.8	<del>د</del> .	97.9			÷	7		4.4



			_					_					
Currency	Year	Total (000 000)	Administration Other than Personnel (%)	Administrative Staff (%)	Teaching Staff (%)	Other Personnel (%)	Total (%)	Teaching Materials (%)	Scholarships (%)	Total (%)	Of which School Meals and Board (%)	Other Expenditure (%)	Subsidies Not Distributed (%)
	1992	6	7				7.07	0.4	4.7	0.3	0.3	16.8	7.0
Vanuatu	1990	831	7				89.8	7	7	7		10.2	•
Vatu	1994	1,120	0.3	4.9	68.3	3.5	76.7	· ~	7	· ~		6.2	16.4
Australia	1986	12,583	7		:		81.6		5.3	2.2			11.0
Dollar	1990	17,889	7	-			77.0		7.2	6.			14.0
	1994	23,768		7	52.8	23.1	75.9						
Hong Kong	1980	3,038	16.2	1	72.9			1.3	0.7	0		0.6	•
	1884	6,180	10.6	î	76.5			1.9		7	-	9.6	•
Japan	1892	18,561,875					79.8					-	
Yen	1983	19,327,828					77.8						
	198 48	19,362,143					79.3						
Korea, Republic of	1881	1,251,286	10.0	1	69.2			4.	0.0	0.1		19.2	•
Won	1985	2,811,861	5.3	7.1	69.4	0.7	77.2			1.0		12.4	1.1
,	1990	5,495,204		10.2	61.2		71.4		8.0	7.1	3.7	13.6	6.1
	1994	15 699 194					73.5						
	1995	11,370,573		10.2	61.2		11				-		
New Zealand	1980	1,171					8.69	5.6	3.7	2.0		4.5	12.9
Dollar	1985	1.849	0.0	9.1	53.7	4.3	67.2		4.6	2.7	0.1	4	14.8
	1990	4,252	13.5	1.2	40.4					2.2			34.8
•	1892	5,107	11.2	9.0	34.4			,	5.0	1.7	•	•	46.8
Singapore Dollar	1980	587	1.6	î	47.5			0.0	0.3	•	•	7.5	43.1

-->When the symbol /, is shown without an explanatory note, the corresponding data are included under other expenditure. Also, several countries are shown with the symbol..., due to the fact that the questionnaire reply did not clearly indicate whether the relevant expenditure was nil or was included under other categories.

Magnitude nil

Data included elsewhere under another category

Australia: For 1986 and 1990, expenditure on administration other than personnel is included with total emoluments. For 1994, not including preprimary education. For 1994, other personnel includes emoluments of administrative staff.

China: Expenditure on specialized second level and technical/vocational schools is not included.

Indonesia: Expenditure of the ministry of Education only.

Malaysia: For 1991 and 1994, data refer to expenditure of the Ministry of Education only. For 1991, expenditure on administration other than personnel is included with total Lao PDR.: Expenditure on administration other than personnel is included with total emoluments.

Myanmar: Expenditure of the Ministry of Education only.

emoluments.

Philippines: Except for 1985, expenditure on administration other than personnel is included with total emoluments. For 1990, figures on current expenditure refer to the allocated

hailand: For 1995, Ministry of Education only, and not including expenditures on universities.

Tonga: For 1992, capital expenditure is included and expenditure on administration other than personnel is included with total emoluments. Vanuatu, Republic of: For 1990, expenditure on administration other than personnel is included with total emoluments.

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UNESCO 1997 and 1998a

Source:



Table 2.6 a
Number of Teaching Staff in Preprimary\* Level, 1980-1996

				Preprim	ary Level		-			
		Т	otal Numb				%	Fema	le	
Country	1980	1985	1990	1995	1996	1980	1985	1990	1995	1996
Cambodia	630	2,398	2,959	1,954	1,899		100	82	100	99
Lao PDR	252	1,327			2,173	100	100		100	100
Mongolia	1,813	2,205	3,747	5,274	5,541	100			99	100
Vietnam	57,605	65,718	65,400	75,034		100	100			ſ
China	410,700	549,900	749,600	875,063	888,596	82	96	96	95	94
Fiji	196	308	375			100	99			Ì
Indonesia	37,100	58,341		96,466						
Korea, Dem. Rep.							100			
Malaysia		9,056	10,773	20,352			98		99	
Papua New Guinea				53					66	,
Philippines		4,636	9,644	13,578		1				
Thailand		33,119	64,628							
Vanuatu	49					100				
Hong Kong	5,177	6,959	7,595	8,438	•	98	98		99	
Japan	110,037	107,606	109,753	102,992	103,518	88	88	89	94	94
Korea, Rep.	3,339	9,281	18,511	21,098	22,205	85	90	94	100	100
New Zealand		1,459		9,236			99		95	
Singapore		684					100			

\* The data refer to preprimary education, e.g. kindergarten, nursery schools as well as infant classes attached to schools at higher levels. Day nurseries, child care and play centres, etc. are excluded. Unless otherwise stated, data cover both public and private establishments. Figures on teaching staff refer, in general, to both full-time and part-time teachers. The enrolment in private institutions (aided an unaided) as a percentage of the total number of children enrolled in education preceding the first level is also shown. In some cases, the data given should be considered as a approximate indication of the importance of education preceding the first level since complete data are not available. (UNESCO 1998, Statistical Yearbook).

Data in italic refer to the most recent data within two years of the indicated year (see below for details).

Cambodia: 1995 data refers to 1994 data. Indonesia: 1995 data refers to 1994 data. Malaysia: 1995 data refers to 1994 data.

New Zealand: 1980 and 1985 data do not include licensed child care centres.

Japan: 1995 and 1996 data include full time only.

Sources:

All data except those specified below are from UNESCO 1998a.

Cambodia: 1985 data on % Female from UNESCO 1998b.

Lao PDR: 1995 data on % Female from UNESCO 1998b.

Korea, Dem. Rep.: 1985 data on % Female from UNESCO 1998b.

Malaysia: 1995 data on % Female from UNESCO 1998b.

Philippines: 1995 data on Total Number from World Bank 1999a.

Philippines: 1995 data on Total Number from World Bank 1999a
Hong Kong: 1995 data on % Female from UNESCO 1998b.
New Zealand: 1995 data on % Female from UNESCO 1998b.

Singapore: UNESCO 1997



Table 2.6 b Number of Teaching Staff in Primary Level, 1980-1996

	_	_		ry Level Tea	ching Staff					
Country		T	otal Number					Fema	le	
	1980	1985	1990	1995	1996	1980	1985	1990	1995	1996
Cambodia	30,316	35,080	40,820	37,827	43,205		25	31	37	36
Lao PDR	16,109	21,033	19,970		25,831	30	32	37	42	42
Mongolia	4,496	5,064	5,917	6,704	7,587	87	88	90	91	90
Myanmar	80,343	87,482	111,470	119,942			60	65	67	
Vietnam	204,104	235,791	252,413	288,175	•	65	70	75	76	
China	5,499,400	5,376,800	5,581,810	5,664,057	5,735,790	37	40	43	47	47
Fiji	4,097	4,396	4,272			57	58		56	
Indonesia	787,400	1,181,810	1,281,410	1,311,571			. 49	51	52	
Kiribati	435	460	514	624	732	48	51	57	59	58
Korea, Dem. Rep.						l	90			
Malaysia	73,664	91,424	120,505	140,342	145,503	44	50	57	59	60
Papua New Guinea	9,549	11,335	13,105	13,652		27	30	32	36	
Philippines	264,241	289,251	317,023	324,418	341,183	80	95			
Samoa	1,438	1,511		1,475	1,479	71	74		71	72
Solomon Islands	1,148	1,496	2,457			26				
Thailand	299,473	369,822	314,684			49				
Tonga	781	744	689			l	62	69		
Vanuatu	986								41	
Australia	91,280	97,070	95,916	101,035	102,267	70	72	73	76	76
Hong Kong	17,937	19,404	19,518	18,740		73	74		75	
Japan	470,991	464,173	452,849	464,431	425,714	57	56	58	60	62
Korea, Rep.	119,064	126,785	136,800	123,074	122,265	37	43	50	59	61
New Zealand	22,893	16,547	17,729		18,146	66	70	79	81	82
Singapore	9,463	10,363	10,008	10,356	10,618	66	69		77	

On 1 July 1997 China resumed its exercise of sovereignty over Hong Kong. Data for China do not include data for

Hong Kong, China or Taiwan, China unless otherwise noted. Malaysia: For 1995 and 1996, public and aided schools only.

Vietnam: 1990 data refer to 1991 data.
Philippines: For 1980, public education only.
Samoa: 1980 data includes intermediate education.

Australia: 1995 and 1996 data are expressed in full time equivalent.

Japan: 1995 and 1995 data include full-time only.

Data in italic refer to the most recent data within two years of the indicated year (see below for details).

Myanmar: 1995 data refer to 1994 data. Indonesia: 1995 data refer to 1994 data. Samoa: 1985 data refer to 1986 data.

Sources:

All data except those specified below are from World Bank, SIMA.

Cambodia: 1996 data from UNESCO 1998a.

Lao PDR: 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Mongolia: 1980 and 1996 data on Total Number, and all data on % Female from UNESCO 1998a.

Myanmar: 1995 data from UNESCO 1998a.

Vietnam: 1990 and 1995 data from World Bank 1997b. China: 1995 and 1996 data from UNESCO 1998a. Fiji: 1995 data on % Female from UNESCO 1998b.

Indonesia: 1985 data on % Female from UNESCO 1998b. 1995 data from UNESCO 1998a.

Kiribati: 1995 and 1996 data from UNESCO 1998a. Korea, Dem. Rep.: Data from UNESCO 1998b. Malaysia: 1995 and 1996 data from UNESCO 1998a.

Papua New Guinea: 1985 data from Papua New Guinea, Department of Education 1996. Philippines: 1996 data from UNESCO 1998a. 1985 data on % Female from UNESCO 1998b. Samoa: 1995 and 1996 data from UNESCO 1998a. 1985 data from UNESCO 1998a.

Vanuatu: 1995 data from UNESCO 1998b.

Australia: 1995 and 1996 data from UNESCO 1998a. Japan: 1995 and 1996 data from UNESCO 1998a. Korea, Rep.: 1995 and 1996 data from UNESCO 1998a.

New Zealand: 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Singapore: 1995 and 1996 data from UNESCO 1998a.



Table 2.6 c Number of Teaching Staff in Secondary Level, 1980-1996

Country         Total Number         % Fernale         Total Number         % Fernale           Cambodia         699         8,033         18,091         186 <th></th> <th></th> <th></th> <th></th> <th></th> <th>}</th> <th></th> <th></th> <th>ď</th> <th>condar</th> <th>Secondary Level</th> <th></th>						}			ď	condar	Secondary Level										
1980   1985   1986   1985   1980   1980					Genera										Vocal	ional					
1980   1985   1990   1985   1990   1995   1996   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1980   1985   1980   1985   1980   1985   1980   1985   1980   1985   1980   1985   1980   1985	Country		Ĭ	otal Number					emale				Tota	I Numbe	_			%	Femak	-	
that         6969         6,033         16,406         16,371         26         3         20         286         686         41,327         14,472         14,172         16,323         12,627         41,472         14,172         16,323         12,627         41,472         14,172         16,323         12,627         41,472         14,172         16,326         16,472         14,172         16,326         686         14,472         14,472         14,472         14,472         14,472         14,472         14,473         16,474         16,514         42         42         50         42		1980	1985	1990	1995		086	1985 1	990.1	995 19	- 1		985	1990	1995		1980	1985	1990 1	995	986
RA         3,764         6,032         10,717         26         36         39         39         289         868         209         1,842         1,817         485         688         20         36         36         1,842         1,817         485         688         20         36         441         586         441         586         441         586         68         74         808         441         586         68         74         808         441         586         68         84         441         586         441         586         68         84         441         586         441         586         68         84         441         450         68         84         441         450         68         86         86         86         86         86         86         74         728         286         86         86         86         86         86         86         87         114,200         600         401         66         88         86         88         89         89         89         89         89         89         89         89         89         89         89         89         89         89         8	Cambodia	669	8,033	16,408		16,971			28	2						749					77
a 13.900 12.027 14.712 12.323 12.503	Lao PDR	3,764	8,032			10,717	92	38			တ	289	868		289			20	· ig		
148,973 177,344 179,466 179,541	Mongolia	13,900	12,027	14,712	12,323	12,503			_				1,842	1,817	495	668			٠,	28	92
148,973   177,344   179,466   179,541   18,641,759   25 26 32 36 37   114,200 268,800 400,100 641,330 690,088   25 29 35 30   2254   2669   24,407   240   215   24 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Myanmar	30,048	51,827	65,188						74		908	491	505	808			58	58	-,2	
1,2,5,4,5,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6	Vietnam	148,973	177,344	179,466	179,541		88	1		: \$				15,814	:			•			
2.254   2.669   3.0	China	3,019,700	2,651,600	3,032,600	3,334,242	,464,759	25						8,800 4	00,100	341,330	990,088	25	53		ဓ	8
labeline Berine		2,254	2,669				43	4	•	47		235	282		257		56	25			
Pen. Rep.         46,163         56,931         71,439         84,062         240         215         40         71         60         59         8         8         9         7         70	Indonesia	261,864	480,464	624,407						39		7	20,221	11,655					27		
a Helical Section of Light of Ligh	Kiribati	70	88	172	240	215	43				_	7	9	28	œ	8	37	20	9	52	52
a         46,163         56,931         71,439         84,062         86,605         46         48         52         58         61         1,462         1,699         2,961         4,916         4,916         4,916         4,916         22         24         32         35           les         1,586         1,464         1,814         2,453         34         29         33         33         36         499         4,916         4,	Korea, Dem. Rep.							38											•		
New Culines         1,586         1,484         1,814         2,453         34         29         33         33         33         499         499         499         499         48         1,814         2,45705         95         45         45         45         45         45         45         45         47         35         46         48         38           In Islands         196         270         320         320         45         46         45         46         47         35         46         48         88           In Islands         196         270         320         320         46         46         46         47         35         45         46         48         48         37         45         46         48         48         48         48         46         48         46         48         46         48         46         48         46         48         46         48         46         48         46         48         46         48         48         48         48         48         48         48         48         48         48         48         48         48         48         48	Malaysia	46,163	56,931	71,439	84,062	86,605	<del>\$</del>				_	462	1,699	2,961	4,610	4,916		74	32	32	27
ess         86,779         99,468         121,887         154,705         95         46         45         47         35         48         32         46         38           n Islands         475         270         320         32         46         45         47         35         45         46         38           n Islands         196         270         320         320         31         22         37         37         8         45         8         8           1         70,201         102,763         106,264         36         48         31         45         48         31         45	Papua New Guinea	1,586	1,464	1,814	2,453		\$			33	-				499						
Hislands 196 270 320 320 320 32 34 46 45 47 35 37 32 45 38 39 31 32 37 37 37 37 8 8 38 38 38 38 38 38 38 38 38 38 38 38	Philippines	85,779	99,468	121,887		154,705		95													
slands 196 270 320 320 320 32 57 45 49 31 40 45 45 49 31 40 45 40 31 40 40 40 40 40 40 40 40 40 40 40 40 40	Samoa	475			715	999	45	46	•		_	35			35		4			88	
70,201         102,763         106,264         57         45         49         31         45         45         49         31         45         52         53         45         45         52         51         759         750         759         750         750         750         750         750         750         750	Solomon Islands	196	270	320			3	52				37			37		œ			<b>&amp;</b>	
140	Thailand	70,201	102,763	106,264			22					•	19,278	27,618							
H40  B5,340 105,955 103,298 101,365 101,706 45 48 50 52 53  China 17,800 20,159 22,777 59  B2,338 109,123 145,613 148,602 150,508 21,134 41 46 53 56 59  B2,338 18,683 20,331 21,134 41 46 53 56 59  B2,75 8,562 9,197 10,354 56 58 63 1,1023 1,382 1,212 24 27	Tonga		770	767				45		31			28	45				43	21		
85,340 105,955 103,298 101,365 101,706 45 48 50 52 53 77 7 25 51 759 759 759 25 777 25 717 759 759 759 25 777 759 25 775 759 759 759 759 759 759 759 759 75	Vanuatu	140			:					98		45	3		45	;	:		į	:	
g, China         17,800         20,159         22,777         52         51         759         759         25         25           p.         82,338         109,123         145,613         148,605         150,506         28         32         37         41         42         27,208         31,819         35,111         42,233         42,439         20         23         24         27           md         13,278         18,663         20,331         21,134         41         46         53         56         59         70,233         1,023         1,382         1,212         24         24           8,275         8,562         9,197         10,354         56         58         63         1,023         1,023         1,312         24         24	Australia	85,340	105,955	103,298	101,365	101,708	45														
603,100 p. 82,338 109,123 145,613 148,603 150,508 28 32 37 41 42 27,208 31,819 35,111 42,233 42,439 20 23 24 27 ind 13,278 18,663 20,331 21,134 41 46 53 56 59 8,275 8,562 9,197 10,354 56 58 63 1,023 1,023 1,382 1,212 24 24	Hong Kong, China		17,800	20,159	22,777			25		21				159			. ~		52		
p. 82,338 109,123 145,613 148,608 150,508 28 32 37 41 42 27,208 31,819 35,111 42,233 42,439 20 23 24 27 and 21,278 18,663 20,331 21,134 41 46 53 56 59 20 23 24 27 and 21,278 18,663 20,331 21,134 41 46 53 66 59 20 23 24 27 and 21,328 21,212 24 24 27 and 22,228 20,331 21,382 1,212 24 24 27 and 22,238 20,331 20,	Japan		603,100			-				*										- 1	_
Ind 13,278 18,663 20,331 21,134 41 46 53 56 59 1,023 1,212 24	Korea, Rep.	82,338	109,123	145,613	148,603	150,508	28	32			_		31,819	35,111	42,233	42,439	20	. 23	54	27	27
8,275 8,562 9,197 10,354 56 58 63 1,023 1,382 1,212 24	New Zealand	13,278	18,663	20,331		21,134	4				G					_					
	Singapore	8,275	8,562	9,197		10,354	8	88		8	_	.023			1,382	1,212	24			8	



Vietnam: 1990 data on General Total Number refers to 1991 data. 1990 data on % Female is provisional or estimated data (UNESCO). Malaysia: 1996 data on % female are provisional or estimated data (UNESCO). For 1995 and 1996, public education only

Australia: 1990, 1995 and 1996 data are expressed in full-time equivalent.

Hong Kong: 1985 data refer to 1984 data. For 1990 and 1995, general education does not include international schools. Japan: 1985 data refer to 1984 data.

Singapore: 1995 and 1996 data on Vocational include full-time only.

Sources

Notes:

Cambodia: 1996 data from UNESCO 1998a. 1985 data on % Female from UNESCO 1998b. All data except those specified below are from World Bank, SIMA.

Lao PDR: 1996 data form UNESCO 1998a. 1995 data on % Female from UNESCO 1998b.

Mongolia: 1995 and 1996 data from UNESCO 1998a

Myanmar: 1995 data on % Female from UNESCO 1998b. 1985 and 1990 data on Vocational Total Number and % Female from UNESCO 1998a. Vietnam: 1990 and 1995 data on General Total Number and % Female from World Bank 1997b.

China: 1995 and 1996 data from UNESCO 1998a.

Fili: 1995 data on % Female from UNESCO 1998b

Indonesia: 1985 and 1995 data on % Female from UNESCO 1998b.

Kiribati: 1995 and 1996 data from UNESCO 1998a.

Korea, Dem. Rep.: UNESCO 1998b.

Malaysia: 1995 and 1996 data from UNESCO 1998a.

Papua New Guinea: 1985, 1990 and 1995 data on General and % Female from Papua New Guinea, Department of Education 1996.

Philippines: 1996 data from UNESCO 1998a. 1985 data on % Female from UNESCO 1998b.

Samoa: 1995 and 1996 data on General Total Number and % Female from UNESCO 1998a. 1985 data on % Female from UNESCO 1998b.

Solomon Islands: 1990 data from World Bank 1995c. 1985 data on % Female from UNESCO 1998b.

Tonga: 1995 data on % Female from UNESCO 1998b

Vanuatu: 1995 data on % Female from UNESCO 1998b.

Australia: 1995 and 1996 data from UNESCO 1998a.

Hong Kong: 1985 data on General Total Number from Komenan 1987. 1990 and 1995 data from UNESCO 1998a. 1985 data on % Female from UNESCO

Japan: 1985 data from Komenan 1987. 1995 data from UNESCO 1998b.

Korea, Rep.: 1995 and 1996 data from UNESCO 1998a.

New Zealand: 1996 data from UNESCO 1998a. 1995 data from UNESCO 1998b.

Singapore: 1995 and 1996 data on General Total Number and % Female, on Vocational Total Number from UNESCO 1998a

Table 2.6 d Number of Teaching Staff by Type of Institution in Tertiary Level, 1980-1996

Country         Total Numeral         All methidines         % Fernation         Total Numeral         Total Numeral         N Fernation         Total Numeral         N Fernation         N Fernation         Total Numeral         N Fernation         N P P P P P P P P P P P P P P P P P P P	6	,							Tertia	ry Leve	Tertiary Level Teachers	2								
1900   1985   1990   1995   1990   1995   1990					All Instit	lutions				ſ			Univ	ersities &	eq. Instit	utions	ľ			7
1886   1880   1885   1880   1885   1880   1885   1880   1885   1880   1885   1880   1885   1880   1885   1880   1885   1880   1885	Country		ğ	al Numbe	ا			% Fe	male			To	tal Numb	ī.			8	emale	١	1
140   254   688   784   882   186   18   25   19   25   140   446   476   784   825   18   27   25   25   250   27   28   28   28   28   28   28   28	<u> </u>	1980	1985	1990	ı	_	1980 19	185 199	30 1995	1996	1980	1985	1990	1995	1996	1980 1	985 1	990 18	95 15	8
140   234   246   346   346   347   36   141   344   47   36   141   344   47   36   141   344   47   36   141   344   47   36   141   344   47   36   141   34   34   34   34   34   34   3	Cambodia				787	852			25					784	852				22	7
21,152 2,147 2,889 3,805 3,078 40 42 43 47 38 1,113 1,510 1,428 4,888 2,343 31 35 34 4,888 1,125 4,884 2,780 22 2,848,862 344,862 344,862 4,148 1,125 1,101 1,101 1,12 1,12 1,101 1,	Lao PDR	140		698		1,369	18	_	61	8	140		476		456		23	52		8
17.556   3.10   4.500   4.756   4.0500   51.570   22   4.560   51.550   22.500   51.556   51.570   22   4.716   51.570   22   4.716   51.570   22   4.716   51.570   51.570   51.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   54.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.571   53.570   52.570   53.570	Mongolia	2,180		2,689	3,805	3.076	4	-			1,113		1,429		2,343		32	Ŗ		87
17,242   18,144   22,750   18	Myanmar	4,509			5,730									4,888						_
22,134 22,656 37,000 54 13.90 15,050	Vietnam	17,242					2			•	- 1			;	7					7
Cuimea   5,541   2,13   10,169   12,247   53   160,000   157,685   150,000   157,685   150,000   157,685   150,000   157,685   150,000   157,685   150,000   157,685   150,000   157,685   157,000   150,000   157,000   150,000   157,000   150,000   157,000   150,000   157,000   150,000   157,000   150,000	China	281,765	409,971		~*	510,570					246,862	344,262	394,567	401,000	411.970		!			3
Culmea   5,541   2,589   10,080   157,685   18   2,299   4,718   5,280   4,718   5,280   157,883   23   24   22,377   5,33   24,3770   5,080   5,317   38,423   14   14   16   22   183,739   10,350   14,686   18,083   25,177   18   18   18   18   18   18   18			249					18				148					17			
Cuinea   C	Indonesia		75,589		150,608	157,695		18	•					150,608	157,695					_
Cuimea   658   57,000   54   53   53   54   53   54   54   55   54   54	Malaysia	5,541					92	22			3,299					ឌ	54			
10,350   14,770   57,000   54   10,350   14,666   18,083   26,171   18   19,350   14,066   18,083   26,171   18   19,353   13,333   13,3	Papua New Guinea	638																	į	
22,134 22,659 27,824 28,17 38,423	Philippines	43,770				89,677	53					50,821		66,876					27	
10,350   14,666   18,083   25,171   18   18   19   19   19   19   19   1	Samoa			3																
13   13   13   13   13   13   13   13	Thailand		30,905								10,350									
21;137 24;507 27;109 401;509	Tonga										4					<b>~</b>	,			_
92 213,537 243,507 271,109 401,509	Australia	22 134							33		22,134			26,876	26,920		33	33	ဗ္ဗ	ဗ္ဗ
213.537         243.507         277.109         401.509         14         16         2         188,739         191.533         210.791         73.651         16         17         2         28         24         14,989         27.082         57.27         3.059         1         2         2         8         4,780         5.286         6,651         1         2         2         8         4,780         5.286         6,651         1         2         2         2         8         4,780         5.286         6,651         1         2         2         2         8         4,780         5.286         6,651         1         2         2         2         4,780         5.286         6,651         1         2         2         2         4,780         5.286         6,651         1         2         2         2         2         2         4,780         5.286         6,651         1         2         3         4         4         4         7         3         4         6         6         5         2         4         4         4         4         4         4         4         4         4         4         4         4         4	Hong Kong										1,073					19	8			
Rep.         21,173         34,300         72,954         103,703         98,432         15         17         22         28         21         14,989         27,082         57,179         73,651         16         21           Area         2,270         2,270         1,0250         16,021         10,280         18         24         44         47         47         86         2,972         3,059         17         2.0         28           country         1,580         1990         1985         1990         1985         1980         1980         1980         1980         198	Japan	213.537		271,109	401,509		7		16	8			210,791				2	Ξ		
Annual State	Korea Ren	24 173		72 954	103,703	98.432	•								73,651	•	16	7		22
Ountry         Distance-Learning Institutions         Tentiary Level Teachers         Other Third Level Institutions         2,372         3,059         17         25           Ountry         Total Number         Distance-Learning Institutions         We Female         Total Number         We Female	Now Zodland	7 804			10 512											7	8	88		
Total Number   Tota	Cipospoo	200.0												2,972	3 059	٠	,		25	
Ountry Total Number	Outsigned								Tertia	Ne P	Teache	و								
Total Number   Total Number   September				Dietai	mee lean	ing lostit	rtions			ſ			ð	r Third Le	wel Insti	tutions				Γ
1980   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1980   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990   1985   1990	dano		É	Mumb.	, a			% Fe	male			۲	tal Numb	<b>a</b>			8	Female		
Harman Ha	(minos)	30,	7007	9	4005	9000	1000	100	100	1000		1985	1000	1995	1996	1980	1985 1	990 1	195 1	986
HR RR RR 1,067 1,237 1,280 2,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 49 50 52 1,148 40 1,148		286	8	3	282	986	200	CO	20.00	8		3	3	3						I
Head Indicated Beight 1,087 1,237 1,280 2,148 49 50 52  28,887 101 76,100 19  22,242 3,495 4,909 442  New Guinea New Guin	Cambodia											æ			913		5			25
a 6,016	Leo PUX		٠								-						9	2		Ş
an Beauty Carinea Bea	Mongolia		• .			~					8		_		7, 140		3	70		?
8,016 8,016 22.500 19 19 19 19 19 19 19 19 19 19 19 19 19	Myanmar				₹								828							
iia  Bandarius  6,016  6,016  22,500  2,242  3,495  442  165  19  2,242  3,495  442  165  19  19  10  19  19  10  10  19  10  10	Vietnam								i		٠.				1				;	
a September 101 101 101 101 101 101 101 101 101 10	China	6,016	:			22,500					28,887				76,100					
isia New Guinea New Guinea  Ne																	13			
Average and the second of the	Indonesia												•					•		
New Guinea  New Guinea  New Guinea  One  One  One  One  One  One  One	Malaysia					0					2,242					39	13			
A 921 1,025 1,359  a 9,244 15,318 33,209 11,893  a 9,244 15,318 14,784  a 9,344 15,318 14,784  a 9,348 15,318 14,784  a 9,348 15,318 14,784  a 9,348 15,348 15,348  a 9,348 15,348 15,38	Papua New Guinea										165			442						
a ong - 443 791 - 111 1. 1. 7 23 6.204 6.813 14,784 24,670 16 23 29 21 40 30 31 2.914 3,074 4,651 23,830 21 3.83 21 3.8 36.204 6.813 14,784 24,670 16 23 29 29 29 30 30 31 30 30 31 30 30 31 31 31 31 31 31 31 31 31 31 31 31 31	Philippines											6,179							:	- ;
a 5,244 15,318 33,209 11,893 39 40  a 7,1025 1,359  a 7,1025 1,359  a 1,987  a 44,798 51,531 59,527  b 44,798 51,531 59,527  a 44,798 51,531 59,527  b 204 6,813 14,784  a 4,679 16 23 29  a 2,914 3,074 4,651  b 7 1 1 1 1 1 1 1 1 3 3930 3,630 21  a 3,930 3,630 21  3 3,930 3,630 21  3 3,930 3,630 21	Samoa														7				<b>\$</b> :	89
Ortig - 443 791 111 1. 1 7 23 6.204 6.813 14.784 24.670 16 23 29 2814 3.074 4.651 2,930 3,630 21 36 36 36 37	Thailand		921				_				9,244								5	
ong - 443 791 - 1 15 44,798 51,531 59,527 30 30 31 80,000	Tonga										జ					8	:		1	
1,987	Australia	1.		:											., :*				. =	•
. 443 791 . 1 15 44,798 51,531 59,527 30 30 31 2, 1, 405 991 111 1. 1. 7 23 6,204 6,813 14,784 24,670 16 23 29 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Hong Kong										1,987					<b>*</b> "	151			٠.
0. J. 405 991 111 J. J. 7 23 6,204 6,813 14,784 24,670 16 23 29 and J.	Japan	•	443				•	-	15		44,788	ų,					ස	3		
nd 1. 1. 1. 1. 1. 1. 2,914 3,074 4,651 26 31 42	Korea. Rep.	<u> </u>	405			111	7	7	7	ន					24,670		23	23		ည
837 3,630 21	New Zealand	·;	7	7			7	7	7		2,914						3	45		-
	Singapore										837			3,930	ı	ı	1		8	



 J. Data included elsewhere under another category Data in italic refers to 1991 data (Fiji).

data are shown separately by type of institution: (a) universities and equivalent degree-granting institutions; (b) distance-learning university institutions; The data in the table refer to teaching staff in all institutions, both public and private, at the third level of education. For most countries and territories (c) other third level educational institutions - these include all other education at the third level in non-university institutions (teacher training colleges, technical colleges, etc.).

China: 1996 data on % Female is provisional or estimated data (UNESCO). All data refer to full-time teachers only. Malaysia: In 1990, data on Female students in other third level institutions do not include a part of vocational education. Samoa: Data includes Secondary Teachers College, Primary Teachers College, and National University of Samoa.

Papua New Guinea: 1980 data on All, Total Number, is provisional or estimated data (UNESCO).

Australia: Until 1990, data do not include Vocational Education and Training Institutes and data on teaching staff are expressed in full-time equivalents. Hong Kong: Data on 'other third level institutions' in 1980 to Hong Kong Polytechnic only. New Zeeland: Data on universities and equivalent degree granting institutions for students in 1980 for teaching staff in all years include distance learning institutions.

Sources:

All data except those specified below are from UNESCO 1998a Fiji: 1990 data from World Bank 1995a

Philippines: 1996 data from World Bank 1999a Samoa: 1990 data from World Bank 1993

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Table 2.7
Student Teacher Ratio in Primary and Secondary Level, 1980-1996

		Pri	mary Lev	ve!			Sec	ondary L	evel	
Country	1980	1985	1990	1995	1996	1980	1985	1990	1995	1996
Cambodia	43.8	37.5	32.6	45.0	44.4	25.5	38.8	15.2	18.2	19.3
Lao PDR	29.8	24.9	28.2	30.1	30.0	19.2	11.2	13.1	13.0	16.8
Mongolia	32.0	30.2	28.1	24.8	30.9	23.2	21.8	18.7	18. <i>4</i>	14.7
Myanmar	51.6	53.8	48.3	48.0		34.1	23.0	12.8		
Vietnam	38.6	34.5	35.1	34.2		25.8	22.7	18.0	27,5	
China	26.6	24.9	21.9	23.3	23.7	17.9	17.0	14.6	15.8	16.4
Fiji	28.3	29.0	33.6			19.5	15.3	19.8		
Indonesia	32.4	25.3	23.2	23.0	22.4	14.9	15.3	15.2	14.2	18.3
Kiribati	30.4	29.2	28.6	27.3	23.6	15.8	13.7	12.2	14.4	16.8
Malaysia	27.3	24.1	20.4	20.0	19.6	22.8	22.1	19.6	18.3	18.6
Papua New Guinea	31.4	30.3	31.7	38.4		21.6	22.8	25.5	26.5	
Philippines	30.4	30.9	32.9	33.6	36.4	34.1	32.3	33.1	36.1	34.4
Samoa	23.0	20.8		24.3		ŀ			18.5	
Solomon Islands	25.1	25.9	19.4	24.1		15.7	19.4	17.5		
Thailand	24.7	19.3	22.1	20.0	21.0	23.0	17.6	16.7	20.2	21.8
Tonga	24.3	22.9	24.0	22.3			18.1	17.7	18.4	•
Vanuatu	23.6		31.6	31.0		13.1		18.3	19.0	
Australia	18.8	15.9	16.5	16.3	18.1	12.9	12.1	12.4	12.6	12.7
Hong Kong	30.1	27.6	26.9	23.7		29.3	24.0	21.4	20.1	
Japan	25.1	23.9	20.7	19.4	19.7	17.2	17.9	16.7	14.2	15.9
Korea, Rep.	47.5	38.3	35.6	31.8	31.2	39.1	35.0	25.2	24.7	24.3
New Zealand	16.7	19.9	18.0	18.0	22.0	26.3	18.8	16.3	13.9	16.1
Singapore	30.8	26.8	25.8	25.0	25.0	19.4	20.4	20.8	20.8	20.1

Note: Data in italic refer to the most recent data within two years of the indicated year.

Singapore: 1985 data on Secondary is data from "mid-1980s", year not specified.

Sources: All data except those specified below are from USAID, GED.

Cambodia: 1995 data on Primary from World Bank, SIMA. 1996 data on Primary, and all data on Secondary from World Bank, EdStats.

Lao PDR: 1990 data on Primary from World Bank, SIMA. 1990 and 1996 data on Secondary and 1995 data from

World Bank, EdStats. 1996 data on Primary from UNESCO 1998a.

Mongolia: 1980 data on Primary from UNESCO 1998a. 1985 and 1990 data on Secondary and 1996 data from World Bank, EdStats.

Myanmar: 1995 data from UNESCO 1998b

Vietnam: All data on Secondary from World Bank, EdStats.

Fiji: 1990 data on Secondary from World Bank, EdStats.

Indonesia: 1995 data on Primary from UNESCO 1998b. 1996 data from OECD 1998. 1990 and 1995 data on

Secondary from World Bank, EdStats.

Kiribati: 1995 data on Secondary and 1996 data from World Bank, EdStats.

Malaysia: 1996 data on Secondary from OECD 1998.

Papua New Guinea: 1990 data on Secondary from World bank, EdStats. 1995 data on Secondary from Papua New Guinea, Department of Education 1996.

Solomon Islands: 1985 and 1990 data on Secondary and 1995 data from World Bank, EdStats.

Thailand: 1995 data on Primary from UNESCO 1998b. 1996 data from OECD 1998. 1980 and 1995 data on

Secondary from World Bank, EdStats.

Tonga: 1995 data from World Bank, EdStats.

Vanuatu: 1990 data from World Bank, EdStats. 1995 data from UNESCO 1998b.

Australia: 1996 data on Primary from OECD 1998. 1995 and 1996 data on Secondary from World Bank, EdStats.

Hong Kong: 1990 data on Secondary from World Bank, EdStats.

Japan: 1996 data from OECD 1998, 1995 data on Secondary from World Bank, EdStats.

Korea, Rep .: 1996 data from OECD 1998

New Zealand: 1995 data on Primary from UNESCO 1998b. 1996 data from OECD 1998. 1985, 1990 and 1995 data on Secondary from World Bank, EdStats.

Singapore: 1995 and 1996 data on Primary from UNESCO 1998a. 1985 data on Secondary from Tan and Mingat 1992. 1990, 1995 and 1996 data on Secondary from World Bank, EdStats.



3. Access to Education, Participation, Progression and Graduates



Table 3.1 Structure of Education Systems

-	Com	pulsory	Dein		Coope	adon.		Secor	ndary	
		cation	Prim	nary	Seco	ndary	First	cycle	Secon	d cycle
	Age	Duration	Starting	Ending	Starting	Ending	Starting	Ending	Starting	Ending
Country	limits	(years)	age	age	age	age	age	age	age	age
Cambodia	6-12	6	6	11	12	17	12	14	15	17
Lao PDR	6-15	5	6	10	11 -	16	11	13	14	16
Mongolia	8-16	8	8	11	12	17	12	15	16	17
Myanmar	5-10	5	5	9	10	15	10	13	14	15
Vietnam	6-11	5	6 7	10	11	17	11	14	15	17
China	7-15	9	7	11	12	16	12	14	15	16
Fiji	6-15	8	6	11	12	17			İ	
Indonesia	7-15	9	7	12	13	18	13	15	16	18
Kiribati	6-15	9	6	12	13	17			l	
Korea, Dem. Rep.	5-15	10	6	9	10	15				
Malaysia *			6	11	12	18	12	14	15	18
Papua New Guinea *			7	12	13	18	13	16	17	18
Philippines	6-12	6	7	12	13	16				
Samoa 1	5-14	9	5	12	13	17	13	15	16	17
Solomon Islands *			6	11	12	16	12	14	15	16
Thailand	7-15	6	6	11	12	17	12	14	15	17
Tonga	6-14	8	6	11	12	18	1		ļ	
Vanuatu	6-12	6	6	11	12	18	12	15	16	18
Australia	6-15	10	5	11	12	17	12	15	16	17
Hong Kong	7-15	9	6	11	12	18	12	16	17	18
Japan	6-15	9	6	11	12	17	12	14	15	17
Korea, Rep.	6-15	9	6	11	12	1.7	12	14	15	17
New Zealand	6-16	10	5	10	11	17	11	14	15	17
Singapore *			6	11	. 12	18	12	15	16	18_

Blanks indicate data not available, according to UNESCO.

Structural Changes in Education Systems (from UNESCO Statistical Yearbook 1998):

Cambodia: Duration of the First level was changed from 4 to 5 in 1986/87, then to 6 years in 1996/97.

Mongolia: Duration of the First level (Primary) was changed from 3 to 4 years in 1996/97. Duration of the General education at the Second level (Secondary) was changed from 5+2 to 4+2 in 1996/97.

Samoa: Duration of the First level was changed from 7 to 8 in 1995.

Australia: Duration of the General education at the second level was changed from 3+3 to

4+2 in 1993. Duration of the First level was changed from 6 to 7 in 1995. Singapore: Duration of the General education at the second level was changed from 4+2 to

4+3 in 1981.

Source:

All data except the data on compulsory for Samoa are from UNESCO web site (http://www.unesco.org).

<sup>1</sup> Postlethwaite (Ed.) 1995.



<sup>\*</sup> Education is not compulsory, according to the various sources obtained from World Bank staff.

Table 3.2 School Life Expectancy\*, 1985 & 1995

	To	otal	Ma	ale	Fem	nale
Country	1985	1995	1985	1995	1985	1995
Lao, PDR		6.9		8.2		5.7
Mongolia		7.2	;	6:2		8.1
Indonesia	9.8	10.0	10.3	10.4	9.2	9.5
Philippines	10.0	11.0	9.9	11.0	10.1	11.0
Samoa		11.5	a	11.4	İ	11.7
Australia	12.5	16.2	12.5	16.3	12.5	16.1
Hong Kong	12.1	12.6	12.2	12.6	12.1	12.7
Japan	12.9	14.0		14.2	•	13.8
Korea	13.2	14.5	13.8	15.1	12.5	13.9
New Zealand	13.7	16,4	13.8	16.0	13.6	16.7

\*School life expectancy, or expected number of years of formal education, is the number of years a child is expected to remain at school, or university, including years spent on repetition. It is the sum of the age-specific enrollment ratios for primary, secondary, and tertiary education.

Source:

**UNESCO 1998b** 



Table 3.3
Student Gross Enrollment Ratio\* in Preprimary\*\* Level, 1980-1996

		Gross	Enrollment Ra	tio (%)	
Country	1980	1985	1990	1995	1996
Cambodia	3	11	5	5	5
Lao PDR	2	6	7	7	8
Mongolia	25	28	39	23	25
Vietnam	35	.33	28	35	36
China	13	20	23	29	29
Fiji	9	7	13	15	
Indonesia	12	15	18	19	20
Kiribati			33		
Malaysia	23	37	31	58	59
Papua New Guinea	0	1	0	1	1
Philippines	4	6	12	13	11
Samoa	22	20	16	27	37
Thailand	10	18	44	58	63
Australia	68	71	71	73	78
Hong Kong, China	81	92	80	84	85
Japan	41	46	48	49	49
Korea, Rep.	8	42	55	85	88
New Zealand	73	91	74	77	77
Singapore	13	20	21	19	19

According to UNESCO, the data refer to pre-primary education, e.g. kindergartens, nursery schools and infant classes attached to schools at higher levels. Day nurseries, child care and play centres, etc. are excluded.

*Kiribati*: The enrollment ratio is calculated for this study, based on enrollments and number of 3 - 5 year olds by island, using the data from the original source. Data on 2 out of 19 islands are not available; therefore, not included in this table.

Sources:

All data except those specified below are from World Bank, SIMA.

Cambodia: 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a. Lao PDR: 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Mongolia: 1996 data from UNESCO 1998a. China: 1996 data from UNESCO 1998a. Fiji: 1995 data from UNESCO 1998b. Indonesia: 1995 data from UNESCO 1998b.

Kiribati: 1990 data from Governments of New Zealand and United Kingdom 1992

Thailand: 1996 data from UNESCO 1998a.

Australia: 1996 data from UNESCO 1998a.

Japan: 1996 data from UNESCO 1998a.

Korea, Rep.: 1996 data from UNESCO 1998a.

New Zealand: 1996 data from UNESCO 1998a.



<sup>\*</sup> Gross enrollment ratio is the ratio of total enrollment, regardless of age, to the population of the age group that officially corresponds to the level of education shown. Estimates are based on the International Standard Classification of Education (ICSED). (World Bank, SIMA).

<sup>\*\*</sup> Preprimary education refers to the initial stage of organized instruction designed primarily to introduce very young children to a school-type environment. (World Bank, SIMA).

Student Enrollment Ratio in Primary Level, 1980-1996 Table 3.4 a

													Primar	y Leve	Primary Level Enrollment Ratios (%)	ment Re	atios (9	g											
Country					Total	<b>B</b>				Г					Male					L				۳	Female				
-			Gross					Ş				g	Gross				Ż	Net		_		Gross	<i>"</i>				Net		
	1980	1985	1980 1985 1990 1995 1996	1995	1996	1980	1985	1990	1995	1996	1880	1985 1	1990 1	1995 1	1986	1980, 19	1985 19	1990 1995	95 1896		0. 198	1980. 1985 1990. 1995 :1996	198	5 :199	1980	1985	1990	1995	1996
Cambodia			118	122	131			-		7.8				134	142								109	9 119	6				72
Leo PDR	113	=	2	107	=======================================			92	8	72	123	121		133					75	Š	5	0	8	_				2	
Mongolia	107	Ď	81	88	8				8	83	107	102	88	87	88				78	107	7 104	88	8	0 91				8	8
Myanmar	2	8	\$	5					٠,	-	8	101	107	3							88	96 104	102	٠.	*				
Vietnam	\$	ន	\$	1		8	٠,	•	6	į	=	8			, i			.,		\$	8 0	0	i i						
China	113	123	127	118	120			8	8	8	121	132	132	119	121		-	8	99	100		4 121		7 120			88	88	8
Fiji	119	122	125	128		85	46		8		119	122		128		85	, 26	-	66	119	9 122	5	127	_	85	97		46	
Indonesia	107	117	115	114		88	88	87	84		115	120	117	117		93	8	5	8	5	114	4 114	112	~	8	8	8	82	
Kiribati		8	\$									85	83								O	93 85							
Malaysia	8	5	83	9	16				9		88	5	83	2	85				91	85	2 100	0 93	3 92	2 92	2			85	
Papua New Guinea	28	67	72	8							8	23	78	81						5	1 62	2 66	3 74	₩.					
Philippines	112	107	113	116	117	\$	86		5	_	<del>1</del>	108				92	4			110	0 107	7			85	88			
Samoa		\$	<del>5</del>	इ	102				4	84		5	102	103	5		86	86	8 48	87	108	8 102	103	3 103	6	98	86	97	97
Solomon Islands	78	79	\$	46							8		8	\$						9	99	78	8	6	_				
Thailand	8	8	8	81	88						<u>\$</u>		5							84	2	99	_						
Vanuatu		8	9	<b>5</b>						-		:	60	55		1					?	5	107						
Australia	112	107	\$	\$	ਨੈ	\$	88	8	88	87	113	107	\$	\$	\$	8	88	. 8	88	111	106	6 107	_	8 103	8	88	8	8	97
Hong Kong	107	충	102	88		8	8		2		107	\$	102	8	_	88	88	-	8	\$	8 55	5 103	1 97	_	88	88		8	
Japan	Ď	102	\$	102	5	\$	\$	<b>\$</b>	8		5	5	8	102		8	8	8 ∓	8	Ď	1 102	2 100	102	~	5	\$	5	8	
Korea, Rep.	110	87	<del>2</del>	8	\$	\$	×	8	8	8	8	88	105	8	-	8	<b>3</b>	8	88	Ţ	<del>**</del>	8	101	-	<u>\$</u>	8	8	8	
New Zeatand	Ę	107	\$	Ž	ই	8	<u>\$</u>	\$	8	8	Ξ	<b>5</b>	<del>1</del> 08	55	इ	8	<b>6</b> 0 ±	<b>5</b>	90 5	<del>8</del>	108	6 105	\$	4 103	8	5	8	8	8
Singapore	횷	\$	호	8	क्र	8			g	$\exists$	<u>5</u>	110	호		88	8				\$	5	102		8	8				

Data in *italic* refer to the most recent data within two years of the indicated year.

Cambodia: 1996 data on Net refers to the data from the 1997/98 school year.

Kiribati: Ratios are as a proportion of the 5-14 age group. Primary education consists of 7 years (initial primary phase) followed by 2 years of senior primary (9 years of compulsory education) (1992).

All data except those specified below are from World Bank, SIMA.

Cambodia: 1995 data on Gross from UNESCO 1998b. 1996 data on Gross from UNESCO 1998a. 1996 data on Total and Female Net from Ministry of Education, Youth and Sport, Kingdom of Cambodia 1988.

Lao PADR: 1996 Data in Total Gross from World Bank, EdStats. 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Mongodia: 1995 data from UNESCO 1998a

Myanmar. 1995 data on Male and Female from UNESCO 1998b

8

Sources:

China: 1996 data from UNESCO 1998a

Fill: 1995 data from UNESCO 1998b

ndonesia: 1995 data from UNESCO 1998b

Kiribati: Governments of New Zealand and United Kingdom 1992
Malaysia: 1995 data on Total Net from UNESCO 1998a. 1995 data on Maie Net and Fernale Net from UNESCO 1998b
Papua New Guinea: 1985 data from UNESCO 1998b

Samoa: 1985 data on Gross from UNESCO 1998b. 1890, 1995 and 1998 data on Gross, and 1995 and 1996 data on Net Formale Net from UNESCO 1998a. 1985 and 1990 data on Male Net and Fernale Net Philippines: 1996 data from UNESCO 1998a

from Government of Western Samoa, Ministry of Women Affairs 1993.
Solomon Islands: 1995 data from UNESCO 1998b
Thalland: 1996 data from UNESCO 1998a. 1985 data on Fernale Gross from Lockheed, Verspoor et al. 1991.
Vanuatu: 1995 data form UNESCO 1998b

Australia: 1996 data from UNESCO 1998a

Hong Kong: 1985 data on Net from UNESCO 1998b

Japan: 1985 data on Net from UNESCO 1988b. 1996 data from UNESCO 1998a Korea, Rep.: 1995 and 1996 data on Total Gross from UNESCO 1998a. 1995 data on Total Net, Male and Female from UNESCO 1998b

Singapore: 1990, 1995 and 1996 data from UNESCO 1998a New Zealand: 1996 data from UNESCO 1998a

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Table 3.4 b
Cohort Reaching Grade 5 (%) and Progression to Secondary School (%), 1980-1995.

Country	С	ohort Rea	aching G	rade 5 (%	)*	Progressi	on to Seco	ondary Sch	100l (%)*
Country	1980	1985	1990	1994	1995	1980	1985	1990	1995
Cambodia				49.6	50	70	49		53
Lao PDR	22	20	, - t	53	53	68	79	63	
Mongolia						97	98		
Vietnam	57	62.3				93	94		
China	62.4	71.4	85.8	92.1	94	65	65	70	
Fiji	93.6	93.9	87	87		ŀ			
Indonesia	75.5	84.5	83.6	89.6	89	58	54	50	
Kiribati	90.5	84.6	97.9	89.7	89	13	13	23	
Malaysia	96.8	99.8	98.2	94	<b>9</b> 9				
Papua New Guinea	73.2	69.0	59.1	59.2	59	37	38	36	38
Philippines	63.6	70	75.2	70		82	84	100	
Samoa		87.2			85	96			
Solomon Islands	68.9		85	81	81				
Thailand		86.5	88.4			45	38	48	
Tonga	100	91.7	83.5		92	65	62	76	
Vanuatu	مدي سديم علي الا		60.9	61		21		25	
Australia	97.4	98.1	98.7	98.9		64	65	64	
Hong Kong	98.9	100	99.8	100	100	90	91		
Japan	100	100		100		100	100	100	
Korea, Rep.	93.9	99.1	99.5	99.8	100	97	99	99	99
New Zealand	93.5	93.2	87.3	96		100	99		
Singapore	97.2	99.7	99.9			82	77		

Data in *italic* refer to the most recent data within two years of the indicated year (applied for this study).

Sources:

All data on Cohort Reaching Grade 5 except those specified below are from USAID, GED.

All 1995 data from UNESCO 1998a

Lao PDR: 1980 and 1985 data from Komenan 1987

Vietnam: 1980 data from Komenan 1987
Fiji: 1994 data from UNESCO 1998b
Malaysia: 1994 data from UNESCO 1998b
Solomon Islands: 1994 data from UNESCO 1998b

Vanuatu: 1994 data from UNESCO 1998b

All data on Progression to Secondary School are from World Bank, EdStats.



<sup>\*</sup> Cohort reaching grade 5 (%) is the percentage of children starting primary school who eventually attain Grade 5 (Grade 4 if the duration of primary education is four years). (UNESCO Statistical Yearbook)

<sup>\*\*</sup> Progression to secondary school (general) is the number of new entrants in the first grade of secondary school (general) divided by the number of children enrolled in the final grade of primary school in the previous year (according to the country's duration of primary education). (UNESCO Statistical Yearbook).

Table 3.4 c
Percentage of Repeaters in Primary Education\*, 1985 & 1995

	Tota	l (%)	Male	e (%)	Fema	le (%)
Country	1985	1995	1985	1995	1985	1995
Cambodia	_	30		31	.,	30
Lao, PDR	27	26		27		25
Mongolia		1		1		0
China	7	2		2		2
Fiji	3		4		2	
Indonesia	11	8		8		7
Kiribati	3	0	3	0	3	0
Philippines	2		2		2	
Samoa		2				
Solomon Islands	8	8	8	8	7	8
Vanuatu		13		14		11
Hong Kong	2	1	2		2	ti e standa ethion
New Zealand	3	4	3	4	3	4
Singapore	1		1	•	. 1	

\* Percentage of repeaters: Total number of pupils who are enrolled in the same grade as the previous year, expressed as a percentage of the total enrolment in primary education (UNESCO, World Education

Report).

Source:

UNESCO 1998b.



Student Enrollment Ratio in Secondary Level, 1980-1996 Table 3.5 a

											ď	Duos	ary Le	šel En	Secondary Level Enrollment Ratios (%)	nt Rat	%) soi											
County					Total									Male	횰				-				"	Female	_ n	٠,		
		ŋ	Gross			İ	Net	<u>,</u>		_		Gross		Ì			Net		$\dashv$		ঠ	Gross				Š		
	1980 1	1980 1985 1990 1995 1986	390, 18	185 19	ı	80 19	85,198	30 196	15 189	1980 1985,1990 1995 1996 1980 1985 1990 1995 1996	1985	1990	1995	1996	1980 1	1985 1	990.1	995 1	986 11	380 18	85 19	90.19	95 19	96 196	980 1881 1880 1881 1881 1881 1881 1881 1	5 1990	1995	1996
Cambodia	32		32	27	24								8	ક્ષ					V.a.				ឧ	18				
Lao PDR	2	ន	24	55	8			•	18	22	27		3	8				2	_	9	19		6	23	, .		15	
Mongotia	6	8	8	29	8			/	57 5	53 85	88	11	8	\$			••	8	45	26	8	88	88	89			89	16
Myanmar	8	ឌ	ន	32							24	R	8						· · · · ·		22	8	٠ 92	.4.		. *		
Vietnam	\$	\$	32	47	- 1		18			4	4		*: : :		1	1	4	i ke	no.	5	4	, and a second		. 1 1 	South.	12°		
	46	<b>4</b>	49	67	69						4	<b>.</b> \$		73	;			:		37	33	42	82	99				_
Fiji	22	51	19	2						53	5		2							22	51	_	65					
Indonesia	8	4	4	48			.,	38	42	35		84	52				9	45		23	-	<del>6</del>	4			35	39	
Kiribati		19	42								19	4	_								19	4						
Malaysia	84	53	28	22	88					2	53	56	55	28						46	53	8	29	61				
Papua New Guinea	12	12	12	4						15	4	15	17							<b>∞</b>	6	5	=					
Philippines	2	2	23	28	62	45	22	•	99	8	2				45	48				69	65			_	48	22		
Samoa		99	22	47	62			4	45		62		4	29				45			7	-	8	98			48	
Solomon Islands	18	18	4	17						22		17	2							6		=	4					
Thailand	8	စ္တ	9	22	22							3								28	-	30						
Vanuatu		15	17	20									23						:		;		18			;		
Australia	7	8	82	147 1	53	2	78	79 B	88	20	78	8	147	153	8	F	4	88	16	22		83		153	71 7	88	8	8
Hong Kong	2	77	8	22	_		92	,-	71	8	89		73		89	8		89		98	73	, -	1		62 68	<b>6</b>	2	
Japan	8	85	26	66	8	83	3 26	8 26	88	85	\$	8	88		. 85			8		3	98	86	8		8		26	
Korea, Rep.	28	8	8	101	201	2	22	98	88	97 82	8	9	101	102	23	82	83	8	26	74	16	88 1	101	201	67 84	85		87
New Zealand	83	82	89	117 1	8	18	3	82	93 97	7 82	2	88	118	117	8	8	\$	8	88	\$	87	8	118 1	123	82 85	2 86	\$	86
Singapore	88	69	63		72					88	28								- 1	69	8							
Notes:	Datai	Data in italic refer to the mo	refer	to the	most r	ecent	data w	vithin (	wo ye	ost recent data within two years of the indicated year	ne indi	cated	year.															

1,

Cambodia: Total Gross Enrollment in 'Lower' Secondary School was 23.7 % while the ratio in 'Upper' Secondary School was 8.1 %, according to "Education Statistics and Indicators 1997/98," by the Ministry of Education, Youth and Sport, Kingdom of Cambodia (1998). The study also reports that Total Net Enrollment ratios in Lower and Upper Secondary were 16.3 and 6.8 %, respectively. Female Gross Enrollment Ratios in Lower and Upper Secondary School were 16.8 and 5.7 % respectively. Female Net Enrollment Ratios in Lower and Upper Secondary School were 16.8 and 5.7 % respectively.

Kiribati: Ratios are as a proportion of 15 - 19 year olds.

Sources:

All data except those specified below are from World Bank, SIMA. Cambodia: 1990 data from World Bank, EdStats. 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Lao PDR: 1990 data from World Bank, EdStats. 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a Mongolia: All 1996 data, and 1990 data on Male and Female from UNESCO 1998b

Myanmar. 1995 data on Male and Female from UNESCO 1998b

Indonesia: 1995 data from UNESCO 1998b

Kiribati: All data from Governments of New Zealand and United Kingdom 1992

Papua New Guinea:1985 on Total from World Bank, EdStats. 1985 data on Male and Female from UNESCO 1998b

Samoa: All 1985 data and 1995 data from UNESCO 1998b. 1990 data from World Bank, EdStats. 1996 data from UNESCO 1998a Philippines. 1996 data from World Bank, EdStats.

Solomon Islands: 1995 data from UNESCO 1998b

Thailand: 1996 data from World bank, EdStats

Australia: 1996 data from UNESCO 1998a

Vanuatu: 1985 and 1990 data from World Bank, EdStats. 1995 data from UNESCO 1998b

Hong Kong: 1985 data on Net from UNESCO 1998b
Japan: 1995 and 1998 data on Total Gross from World Bank, EdStats. 1995 data on Total Net, Male and Female from UNESCO 1998b

Korea, Rep.: 1996 data from UNESCO 1998a

Singapore: 1996 data from World Bank, EdStats New Zealand: 1996 data from UNESCO 1998a

33



Table 3.5 b

Net Enrolment Rates for the Ages with the Highest Upper Secondary Enrollment and Gross

Enrollment Rates in Upper Secondary Education at Typical Ages, based on Head Counts, 1996

	Ne			es at Ages wo		_	Coop Food	lucat Data at	Percentage	of Students
Country	All P	rogrammes		General ogrammes	1	cational and Technical ogrammes		ment Rate at al Age		are Older than ical Age
Country	Age	Percentage of Persons Enrolled (%)	Age	Percentage of Persons Enrolled (%)	Age	Percentage of Persons Enrolled (%)	General Programmes (%)	Vocational and Technical Programmes (%)	General Programmes (%)	Vocational and Technical Programmes (%)
China				_			15	20		
Indonesia	17	29	17	18	17	11	21	12	10	8
Malaysia	15	67	15	61	16	8	60	7	2	n
Philippines	16	32	16	32	а	а	65	а	34	a
Thailand	16	44	16	26	15	23	49	19	58	3
Australia	16	78	16	64	18	19	73	73	10	75
Japan	15	100	15	73	15	28	73	28	3	7
Korea	16	95	16	55	16	40	54	39	9	10
New Zealand	16	97	16	81	17	16	83	77	13	79

Thailand: Data refer to 1997

a Data not applicable because the category does not apply

n Magnitude is either negligible or zero.

Indonesia: Students and personnel in Islamic schools are excluded.

Australia: Private vocational education and some government-funded "Industry Training

Institutions" for vocational education are not included.

Source:



Table 3.5 c
Number of New Entrants to Lower and Upper Secondary Education per 100 Persons at the Typical Age and Number of Lower Secondary Graduates per 100 Persons at the Typical Age, 1996

		New E	ntrants			Graduates	3
	Lower Se Educa	•	Upper Se Educ	•	Lower S	econdary E	ducation
	Age	M + W	Age	M+W	M + W	Men	Women
China	12 to 13	89	15 to 16	36	71	75	66
Indonesia	13	56	16	38	41	43	40
Malaysia	12	99	15	69	74	71	77
Philippines	13	90	16	64	81	80	82
Thailand	12	76	15	52	86	87	86

Thailand: Data refer to 1997

Source:



Table 3.5 d
Ratio of Upper Secondary Graduates to Population at Typical Age of Graduation (times 100) by Type of Programme, 1996

		Total			Genera	I	Vocationa	l and App	renticeship
Country	M+W	Men	Women	M+W	Men	Women	M + W	Men	Women
China	37	43	30	14	16	11	23	27	19
Indonesia	30	32	27	19	20	18	11	12	9
Malaysia	41	35	48	37	29	45	5	7	2
Philippines	63	61	65	63	61	65	а	а	а
Thailand	46	44	48	32	29	35	14	14	14
Japan	99	96	102	73	69	76	26	27	26
Korea	91	91	91	54	57	50	37	33	41
New Zealand	93	.86	99	63	59	.67	30	27	33

a Data not applicable because the category does not apply.

Source:



Table 3.6 a Student Enrollment Ratio in Tertiary Level, 1980-1996

			Total					Male				F	emal	е	
Country	Gros	s Enro		t Ratio					t Ratio					t Ratio	
	1980	1985	1990	1995	1996	1980	1985	1990	1995	1996	1980	1985	1990	1995	1996
Cambodia	1.2		1.2	1.6	1.4			2.0	2.7	2.3			0.4	0.5	0.4
Lao PDR	0.4	1.6	1.4	1.5	2.8	0.6	2.0		2.2	3.9	0.3	1.1		0.8	1.6
Mongolia	21.8	21.6	14.0	15.2	17.0	16.9	15.9	9.7	9.1		26.7	27.6	18.3	21.3	
Myanmar	4.7	. 4.5	4.3	5.4	6.0		4.2		4.2			4.8		6.7	
Vietnam	2.1	1.9	1.9	4.1	4.7	3.4			****		0.9	~			
China	1.7	2.9	2.9	5.3	5.7	2.5	3.9	3.8	7.3	7.3	0.8	1.7	2.0	4.0	3.9
Fiji	2.5	3.2	11.9				3.9					2.4			
Indonesia	3.6	6.3	9.2	11.3	11.3	l	8.5		14.6			4.1		8.0	
Malaysia	4.1	5.9	7.2	10.6	11.4	5.2	6.6	7.4			3.1	5.2	6.8		
Papua New Guinea	1.8	1.6		3.2	3.2	2.7	2.2		4.2		0.9	0.8		2.1	
Philippines	24.4	24.9	27.4	29.7	35.2	22.5		23.0	23.4		26.2		31.9	31.5	
Thailand	14.7	19.0	15.7	20.1	20,9										•
Australia	25.4	27.7	35.5	71.7	75.6	27.2	28.3	32.8	70.0	73.1	23.5	27.0	38.2	73.5	78.2
Hong Kong	10.3	13.3	19.4	21.9	28.0	13.8	16.9	22.5	23.9		6.6	9.4	16.2	19.7	
Japan	30.5	27.8	29.1	40.3	42.7	40.4	35.5	35.7	44.0		20.3	19.8	23.3	36.3	
Korea, Rep.	14.7	34.0	38.6	52.0	60.3	21.3	45.8	51.3	<b>65</b> .5	73.8	7.5	21.2	25.1	37.6	46.0
New Zealand	27.0	33.1	39.7	58.2	58.5	31.4	35.3	37.8	50.9	50.5	22.5	30.8	41.7	65.8	66.7
Singapore	7.8	13.6	18.6	33.7	38.5	9.1	16.6	22.0	36.7	41.5	6.3	10.4	15.2	30.7	35.3

Data in italic refer to the most recent data within two years of the indicated year.

Australia: Change in data coverage. 1980, 1985 and 1990 data don't include Vocational Education and Training Institutes (VETS).

Sources:

All data except those specified below are from USAID, GED.

Cambodia: 1980 data from World Bank 1998a, 1995 data from UNESCO 1998b, 1996 data from **UNESCO 1998a.** 

Lao PDR: 1990 data from World Bank, EdStats. 1995 data from UNESCO 1998b. 1996 data from UNESCO 1998a.

Mongolia: All data from UNESCO 1998a

Myanmar: 1990 data from World Bank 1998a. 1995 data from UNESCO 1998b. 1996 data from

World Bank, SIMA.

Vietnam: 1996 data from World Bank, SIMA.

China: 1995 data on Male and Female from UNESCO 1998b. 1996 data from UNESCO 1998a.

Fiii: 1990 data from World Bank, EdStats

Indonesia: 1985 data from UNESCO 1998b. 1996 data from World Bank, SIMA. Malaysia: 1995 data from UNESCO 1998b. 1996 data from World Bank, SIMA.

Papua New Guinea: 1996 data from World Bank, SIMA.

Philippines: 1995 data on Total from UNESCO 1998a. 1995 data on Male from UNESCO 1998b.

1996 data from World Bank, SIMA.

Thailand: 1990 data from World Bank 1998a. 1996 data from World Bank, SIMA.

Australia: 1996 data from UNESCO 1998a.

Hong Kong: 1985 and 1990 data on Total from World Bank 1998a. 1985 data on Male and Female, and 1995 data from UNESCO 1998b. 1990 data on Male and Female from UNESCO 1998a. 1996 data from World Bank, SIMA.

Japan: 1990 data on Total from World Bank 1998a. 1990 data on Male and Female, and 1995 data on Total from UNESCO 1998a. 1995 data on Male and Female from UNESCO 1998b. 1996 data from World Bank, SIMA.

Korea, Rep.: 1996 data from UNESCO 1998a. New Zealand: 1996 data from UNESCO 1998a. Singapore: 1996 data from UNESCO 1998a.



Table 3.6 b Student Enrollment by Field of Study in Tertiary Level (%), 1980-1995

			5		Ē	THE COURT		_					Ē	remales in Humanities		_	2 M21	Law and Social Science		— R		Science	9	
Country	1980	1985	1880	1885	1980	1985	1880	5885	1880	1985	1890	1995	1980	1985	1880	1995	1980	1985	685	1995	1980	1985	1990	1995
Lao PDR 1	824	908		E	593	689		T	00	1	ı	=	1	1	1	t	1	8		1	1	1		
Mongolia	11.0	14.7		18.8		16.0		22.8	8.4	90		20.2	;	6.2		21.2		12.2		21.8	}	<del>.</del> <del>.</del> <del>.</del>		20.9
Myanmar 1	:		-	0,			,		× '		a. 3	<del>.</del> <del>2</del>		. "{		. ,					. *	٠. : د د د		
Vietnam	88			Water	3	a di a			48	1		1 1 1	5.4			2	4.4	. ;	c .	1000	<b>3</b>	State of the state	•	4
China 1	28.3	23.8	24.3	ន					2.7	8.2	5.8	80					3.8	10.6	12.6	52				
<u></u>		22.2				27.7				9.0				0.7				45.1				45.5		
Indonesia	28.0			17.2	33.4			21.5	6.0			6.4	8.2			7.7	43.2			46.3	43.6			48.8
Malaysia	28.7	25.9	24.7		37.5	36.8	31.2		3.6	2.5	9.4		3.2	2.5	11.2		27.7	30.8	29.6		34.6	34.5	34.5	
Papua New Guinea	10.7	12.8		23.5	12.9	15.1		33.8	0.0	9.6		3.8	0.0	7.7		3.3	37.1	21.7		12.4	62.1	17.0		13.3
Philippines 1	7.3	14.2	16.6	12	10.8		22.9		9.0	14.8	12.4	7	4.0		13.6	_	37.9	34.2	31.4	8	42.0		30.5	
Samoa	8.4				46.7				24.1				31.1				45.0				0.0			
Thailand 1				12								7								8				
Tonga	29.2	29.9			41.3	26.7			14.9	14.2		_	6.4	11.3		-	35.8	27.2			18.1	43.1		
Australia	17.5	20.3	15.4	8.2	26.6	280	21.2	12.0	18.3	25.1	22.8	13.0	24.8	3	29.1	17.4	32.2	21.2	24.5	38.5	27.8	14.9	19.2	37.3
Hong Kong	3.5			7	6.1			,	8.3			80	18.1				31.3			22	54.5			
Japan 1	10.4	8.6		60	22.3	19.3			18.1	18.7		18	36.1	38.4		•	40.4	38.8		8	29.0	29.0		
Korea, Rep.	12.1	11.1	7.8	6.3	24.7	23.5	15.4	13.0	13.9	16.5	19.0	17.3	25.4	30.7	32.5	28.2	18,2	27.3	29.5	27.2	8.4	21.7	24.5	28.0
New Zealand	#	6.1	9.7	11.8	20.8	10.1	14.8	17.5	16.2	19.5	22.0	22.1	25.5	28.9	26.9	24.8	31.3	35.0	35.8	34.7	25.4	33.0	32.1	32.7
Singapore	14.7	4 500			20.5		4	- in	8.2	47.000	1		14.0		A	·	11.8			-	16.7			
	2	Medical Science	cience		Female	s in Med	Females in Medical Science	8	Natr	Natural Sciences and	ces and	F	Females in Natural Sciences	in Nath	al Scien	S98		Other		$\vdash$	Fe	Females in Other	Other	1
1	90,	- 1		150	1			1		81	١,	_1	8	Ē١	Sering	1				┙				
Commo	3	- 1	38	28	282	8	1880	8	<u>88</u>	۱	8	_1	8	1	8	8	8	1985	8	982	980	288	8	1995
Lao POR	21.2	18.2		Ç	<b>50</b> .6	27.2			16.5	27.7		45.0	14.1	12.7			00	3.5			0.0	1,2	1	
Mongotia	13.6	15.1		12.3		22.2		15.5	20.8	50.4	٠	24.1	13	38.1		18.3	<del>1</del> .3	1.7		5.9		5:		1.4
Myanmar '				7			,					8				_								
Vietnam	00 0.0	-		1	8.8	And a seed	Andrew Art of the		8.	27	1		888	:	Sec.		0.0	A. 18.	A STATE OF THE PARTY OF THE PAR	:	00			
China '	12.3	9.3	8.8	^					48.2	48.7	46.8	37				_	9.0	4.4	0.7					
		10.9				9.6				21.4				16.6				0.0		_		0.0		
Indonesia	3.0	į	;	6:	6.2			2.7	22.5			28.2	4.0			19.3	4.0			0.0	0.3			0.0
Malaysia	5.8	3.1	5.6	-	2.7	3.3	3.0		36.5	29.6	27.5		21.8	16.4	19.6		<u>.</u>	8.2	6.2		0.2	6.5	0.5	
Papua New Guinea	7.6	19.5		0.7	9.9	49.0		4.0	32.8	32.3		25.2	11.9	8.9		18.2	11.7	<del>1</del> .		8. 6.	6.7	2.3		31.0
Philippines '	9.7	12.3	17.6	5	15.6		23.9		39.5	24.6	18.0	3	27.8		6.7		20	0.0	4.0		3.5		2.5	
Samoa	0.0				0.0				22.5				22.2				0.0				0.0			
Thailand				ıΩ								19				_				1.3				
Tonga	40	9.0		,	32.6	18.9		•	6.2	18.0	,		1.7	0.0		1	00	00	2000		0.0	0.0		
Australia	7.3	<b>9</b> .3	11.2	10.5	8.4	7.9	15.4	15.4	24.8	26.2	25.6	29.4	12.5	14.3	14.5	14.9	-	6.0	9.0	2.4	-	6.0	0.7	3.0
Hong Kong 1	4.5			7	4.7				51.7			37	16.6				0.7				5		· ·	
Japan 1	5.9	6.5		80	<b>9.4</b>	7.3			22.8	23.6		<b>'8</b>	3.2	4.4			2.4	5.9		_	3.0	3.6		
Korea, Rep.	6.7	6.1	5.1	5.4	12.8	10.1	9.1	8.1	49.1	35.4	38.5	37.1	28.7	12.2	16.5	17.3	1.0	1.7	2.4	8.8	0.0	1.8	3.0	4.4
New Zealand	6.5	6.9	9.9	7.2	6.9	11.2	9.8	8.8	30.8	31.6	21.0	20.4	14.6	15.6	10.9	11.5	<del>1.</del>	0.1	5.1	3.7	9.4	1.4	5.5	3.7
Singerore	4.0				<b>4</b>			1	58.3				848				5.9				5.	. '		

All data except those specified below are USAID. GED.

1995 data on all fields of study are from UNESCO 1998b

4



Table 3.6 c
Ratio of Tertiary Graduates to Population at the Typical Age of Graduation (times 100) by Type of Programme and Gender, 1996

Country	.	Tertia	versity ary ames	Unive Progr	amm	First Degree es (e.g. elor's)	Unive Progr Germa	amm an Dip	irst Degree es (e.g. oloma or urea)	Prog	Degre	es (e.g.	Ph.D.	or Ec	uivalent
	M + W	Men	Women	M + W	Men	Women	м + W	Men	Women	м + W	Men	Women	M + W	Men	Women
China	7			2			x			0.1			n	n	n
Indonesia	3	3	3	6	7	5	×	x	x	1			ŀ		
Malaysia	12	12	12	4	4	4	n	n	n	0.8	0.6	1.0	n	n	n
Philippines	18	19	17	1											
Thailand	10	12	8	7	7	8				0.8	0.9	0.8	<u>n</u>	n	<u> </u>
Australia		and Paris and Assessed		36	29	43	×	X	×	12.2	11.2	13.1	0.8	1.0	0.6
Japan	30	18	43	23	31	15	×	x	x	1.9	3.1	0.7	0.4	0.7	0.1
Korea	20	18	22	26	29	22	x	x	x	3.2	4.5	2.0	0.5	0.9	0.2
New Zealand	16	-11	21	24	20	28	7	6_	7 .	12.1	126	11.7	.0.6	0.7	0.5

n Magnitude is either negligible or zero

x Data included in another category/column of the table.

Thailand: Data refer to 1997

Source:



Table 3.7 Private Enrollment as Percentage of Total Enrollment\*: Preprimary, Primary and Secondary General, 1985 & 1995

Country	Preprimary	<i>(</i> %)	Primary (	%)	Secondary Ge	neral (%)
_	1985	1995	1985	1995	1985	1995
Lao PDR	•	11	-	2.1		
Mongolia	-	-	-	· -	-	•
Myanmar	, s	-	-	-	•	
Vietnam		-	•	-	:	;
China		- Comment	Annual territoria de servicio de la compania del compania del compania de la compania del compania del compania de la compania de la compania del compania del compania del la compania del		representative and a programma of the second	
Fiji	100	100	95.5	96	88	87
Indonesia	100	100	17.3	17.7	44.9	36.9
Kiribati			1	-1	47.1	77
Malaysia	45	42	0.3	0.4	8	5
Papua New Guinea	100	41	1.4	1.8	4	3
Philippines	61	53	6.0	7.4	41	30.8
Samoa				13.1	25	42.6
Solomon Islands		9	7.4	10.6		17
Thailand	41	26	9	12.3	12	6
Tonga			7.3	6.9	83.1	80
Australia	26	27	23.4	25.4	28.8	19.7
Hong Kong	100	100	10.2	10.3	86.3	11.5
Japan	75	80	0.5	0.8	11.3	14.1
Korea, Rep.	54	78	1 -	2	32.3	29.5
New Zealand		ļ	2.0	2.5	4.5	3.9
Singapore	69		23.8	31.1	· 28	

Enrollment in private schools, at the level specified, expressed as a percentage of the total enrollment at the same level. Government-aided schools are considered as private if they are privately managed. (UNESCO World Education Report 1998)

- magnitude nil.

Data in italic refer to the most recent data within two years of the indicated year. Fiji: Schools, although largely government-financed, are managed by community; therefore, identified as "private".

Sources:

All data on Preprimary are from UNESCO 1998b

All data on Primary and Secondary except those specified below are from World Bank, EdStats.

Lao PDR: 1995 data on Secondary from UNESCO 1998b

Fiji: 1985 data on Secondary and 1995 data from UNESCO 1998b

Kiribati: 1995 data from UNESCO 1998b

Malaysia: 1985 on Primary from Tan and Mingat 1992. Data on Secondary from

**UNESCO 1998b** 

Papua New Guinea: Data on Secondary from UNESCO 1998b Philippines: 1985 data on Secondary from UNESCO 1998b Samoa: 1985 data on Secondary from UNESCO 1998b Solomon Islands: 1995 data on Secondary from UNESCO 1998b

Thailand: 1985 data on Primary and data on Secondary from UNESCO 1998b

Tonga: 1995 data on Secondary from UNESCO 1998b

Korea: Data on Primary from UNESCO 1998b

Singapore: 1985 data on Secondary from UNESCO 1998b



4. Learning Environment and the Organization of Schools



Table 4.1 a

Average Teaching Hours Per Week of Primary- and
Secondary-School Teachers, in Selected Countries,
1994

	Teaching Hours	Per Week
	Primary	Secondary
Thailand	25	30
Australia	23	20
Japan	18	14
Korea, Rep.	27	24

The numbers are estimates from the original

graph in the source.

Source:

**UNESCO 1998b** 



Table 4.1 b Number of Teaching Hours Per Year in Public Institutions by Level of Education, 1996

		Teaching T	Time (1996)	_
Country	Primary	Lower Secondary	Upper Secondary (General)	Upper Secondary (Vocational)
Indonesia	1140	912	912	912
Malaysia	762	778	778	813
Philippines	1117	1176	1176	а
Thailand	634	543	543	513
Korea		456	428	456
New Zealand	804	776	747	а

a Data not applicable because the category does not apply

Blank indicates data not available.

New Zealand: Primary and lower secondary schools are required to be open for 394 half-days in a school year. There is no formal rule governing the number of lessons or the duration of a lesson. For this indicator, it is assumed that there are 5 teaching

hours of 60 minutes in each teaching day (OECD).

Source:



Intended Instruction Time per Subject as a Percentage of Total Intended Instruction Time for Students 12 to 14 Years of Age, 1996 Table 4.2

							ı						
Country	Reading and Writing	Mathematics	Science	Social Studies	Modern Foreign Languages	Technology	Arts	Physical Education	Religion	Vocational Skills	Other	Total Compulsory	Flexible Part
China	18	14	6	16	8	_	~	8	-	5	12	26	6
Indonesia	15	15	15	15	9	5	×	· LC	: 140	<b>&gt;</b>	<u> </u>	5 5	2 (
Malaysia	<u>.</u>	=	7	13	=	4	4	4	σ	< ₹	2 c	8 2	= 2
Philippines	=	1	7	<b>+</b>	<del>-</del> <del>-</del>	4	. ^	٠ ٦	> 0	•	: ;	5 6	2 r
Thailand	11	9	ြတ	Ξ	: =	: =	- cr	σ	5 (C	<b>t</b> ((	- 5		ج ۾
Australia	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		١,.		· ,	: :	,	<b>&gt;</b>	<b>.</b>	) }	7	7)	07
(New South Wales)	12	12	12	0	7	ıc	່ເດ	7	4	· c	σ	7.2	
Korea	<u>*</u>	12	7	=======================================	12	တ	<b>∞</b>		· .c	: c	יי	- C	3 8
New Zealand	1	15	4	4	4	,	4	1	: =	: œ	) c	8 8	3 0

n Magnitude is either negligible or zero.

Data included in another category/column of the table.

Reading and Writing: Reading and writing in the mother tongue; reading and writing in a second "mother tongue"; reading and writing in the ongue of the country as a second language (for non natives); language studies; public speaking; literature.

Mathematics: Mathematics; mathematics with statistics; geometry

Science: Science; physics, physical science; chemistry; biology, human biology; environmental science; agriculture/horticulture/forestry.

Social Studies: Social studies; community studies; contemporary studies; economics; environmental studies; geography; history; numanities; legal studies; liberal studies; studies of the own country; social sciences; ethical thinking; philosophy.

Modem Foreign Languages: Foreign languages.

Technology: Orientation in technology, including information technology; computer studies' construction/surveying; electronics; graphics and

design; home economics; keyboard skills; word processing' workshop technology/design technology. Arts: Arts; music; visual arts; practical art; drama; performance music; photography; drawing; creative handicraft; creative needlework.

Physical Education: Physical education; gymnastics; dance; health.

Religion: Religion; history of religions; religion culture.

Vocational: Vocational skills (preparation for specific occupation); techniques; domestic science; accountancy; business studies; career education; clothing and textiles; polytechnic programmes; secretarial studies; tourism and hospitality; sloyd (handicraft)

Other. Subjects that cannot be classified under one of the above headings.

*Thailand*: The data on vocational and technical programmes exclude practical work. *Australia*: Data are for the New South Wales school system only and refer to general education. The subjects under "other" are chosen from

Board of Studies syllabuses and from "School Courses" endorsed by the Board of Studies. Subjects include: history, geography, commerce, aboriginal studies, studies in society, studies of religion, languages other than English, technological and applied studies, creative arts and personal development, health and physical education.

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Source

Table 4.3 a

Annual Statutory Teachers' Salaries in Public Institutions at the Primary Level of Education, in equivalent US dollars converted using PPPs, 1996

Country	Starting salary/ minimum training	Salary after Salary at 15 years' top of experience/ scale/ minimum training training	Salary at top of scale/ minimum training	Ratio of starting salary to per capita	Ratio of salary after 15 years' experience to per capita GDP	Ratio of salary after 15 years' experience to starting salary	Average Primary Teacher Salary as Multiple of GDP per capita ** 1	Years from starting to top salary	Percentage additional bonus *	Salary after 15 years' experience per teaching hour	Salary after 15 years' experience per student enrolled
Cambodia							1.14				18 18 18 18 18 18 18 18 18 18 18 18 18 1
Indonesia	3,040	4,384	6,802	6.0	1.3	4.1	1.20	34	21	4	196
Malaysia	9,240	15,342	21,940	0.8	4.	1.7	2.09	59	7	20	260
Philippines	2,090	7,318	7,412	2.1	2.1	-	2.43	22	32	7	201
Thailand	229	1.203	2,149	0.1	0.2	2.2	6.0	42	æ	2	22
			Section of the second						a parameter a		
(New South Wales)	19,166	34,897	34,897	6.0	1.	80.		12	ے '		1,931
Hong Kong							2.46	* : :			
Japan		- 1 Table 1971					1.38	<u>,                                     </u>		n sile Nax	
Korea	23,675	42,311	67,353	1.7	1.	1.8 8.	1:93	14			1,357
New Zealand	15,267	22,821	22,821	6:0	 6.	1.5	1.35	æ	ଷ	<b>78</b>	1,039
Singapore							0.93	***************************************	Company of the second		
Notes:	* Percenta	Percentage additional bo	onus is an a	verage of t	wo ratios: max	rimum bonus a	ial bonus is an average of two ratios: maximum bonus applicable to starting salary and maximum bonus applicable to salary at	ting salary a	and maximum	bonus applicat	ole to salary at

\* Percentage additional bonus is an average of two ratios: maximum bonus applicable to starting salary and maximum bonus applicable to salary at top of scale.

\*\* 1993 for Cambodia, Hong Kong, Indonesia, Korea, Rep., Myanmar, New Zealand, Philippines, Singapore, and Thailand. 1992 for Japan and Malaysia.

a Data not applicable because the category does not apply

n Magnitude is either negligible or zero.

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Notes on Coverage:

Australia: New South Wales school system only.

responsibilities in addition to teaching duties. Bonuses refer to staffing incentive allowance (hard to staff schools), isolation allowance, and normal entitled to for extra/special duties performed or any additional bonuses available due to the nature of the school or position/tasks the teacher may New Zealand: Salaries do not include the additional remuneration teachers are entitled to when they take on senior positions or management school allowance (where trainee teachers are provided under the supervision of a qualified teacher). Additional remuneration a teacher may be be fulfilling is not included.

Notes on Interpretation:

Australia: Bonuses: Seniority accounts for 12 yearly salary increments for primary, lower secondary and upper secondary (general) teachers. Seniority accounts for 3 yearly salary increments for upper secondary (vocational) teachers. Performance criteria account for all other salary ncrements (associated with promotions positions).

scale is not necessarily the level at which the pay for a teacher with 15 years experience and minimum qualifications stops. It is not uncommon for a eacher at this level to get 3 or 4 performance units in addition to the basic salary. Performance units are worth\$NZ2,350 each. There is no upper New Zealand: Provision is made for performance based pay for teachers. This means that the salary level indicated at the top of the teaching imit on the number of performance units that may be awarded. Performance units are awarded at the discretion of the school. In total performance/management units account for about 20 percent of the total cost of teachers' remuneration.

Indonesia: The top of the salary scale is theoretical, including an increment for earning a Ph.D. There are almost no Ph.D. graduates teaching in primary schools.

All data except those specified below are from OECD 1998

<sup>1</sup> Carnoy and Welmond 1996

Sources:

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Annual Statutory Teachers' Salaries in Public Institutions at the Lower Secondary Level of Education, in equivalent US dollars converted using PPPs, 1996 Table 4.3 b

Country	Starting salary/ minimum training	Salary after 15 years' experience/ minimum training	Salary at top of scale/ minimum training	Ratio of starting salary to per capita GDP	Ratio of Ratio of salary starting after 15 years salary to experience to ber capita per capita GDP	Ratio of salary after 15 years' experience to starting salary	Years from starting to top salary	Percentage additional bonus *	Salary after 15 years' experience per teaching	Salary after 15 years' experience per student enrolled
Indonesia	3,404	4,788	7,075	0.1	1.4	1.4	31	19	5	241
Malaysia	17,682	27,956	38,673	1.6	2.6	1.6	22	7	36	1,508
Philippines	7,090	7,318	7,412	2.1	2.1	1.0	22	32		220
Thailand	229	1,203	2,149	0.1	0.2	2.2	45	æ	7	28
Australia						and the first of the second of		*		The state of the s
(New South Wales)	19,166	34,897	34,897	6.0	1.7	- - -	12	c		
Korea	23,960	42,597	67,448	80.	3.1	1.8	4	1	66	1,673
New Zealand	14,998	23,393	23,393	0.0	1.3	1.6	æ	12	30	1,289

\* Percentage additional bonus is an average of two ratios: maximum bonus applicable to starting salary and maximum bonus applicable to salary at top of scale.

Data not applicable because the category does not apply

Notes:

n Magnitude is either negligible or zero

Australia: New South Wales school system only.

addition to teaching duties. Bonuses refer to staffing incentive allowance (hard to staff schools), isolation allowance, and normal school allowance (where trainee eachers are provided under the supervision of a qualified teacher). Additional remuneration a teacher may be entitled to for extra/special duties performed or any New Zealand: Salaries do not include the additional remuneration teachers are entitled to when they take on senior positions or management responsibilities in additional bonuses available due to the nature of the school or position/tasks the teacher may be fuffilling is not included. Notes on Interpretation:

Australia: Bonuses: Seniority accounts for 12 yearly salary increments for primary, lower secondary and upper secondary (general) teachers. Seniority accounts or 3 yearly salary increments for upper secondary (vocational) teachers. Performance criteria account for all other salary increments (associated with promotions positions).

necessanly the level at which the pay for a teacher with 15 years experience and minimum qualifications stops. It is not uncommon for a teacher at this level to get that may be awarded. Performance units are awarded at the discretion of the school. In total performance/management units account for about 20 percent of the 3 or 4 performance units in addition to the basic salary. Performance units are worth\$NZ2,350 each. There is no upper limit on the number of performance units New Zealand: Provision is made for performance based pay for teachers. This means that the salary level indicated at the top of the teaching scale is not otal cost of teachers' remuneration.

*Indonesia:* The top of the salary scale is theoretical, including an increment for earning a Ph.D. There are almost no Ph.D. graduates teaching in primary

OECD 1998

Source:

Annual Statutory Teachers' Salaries in Public Institutions at the Upper Secondary Level of Education, General Programmes, in equivalent US dollars converted using PPPs, 1996 Table 4.3 c

Country	Starting salary/ minimum training	Salary after 15 years' experience/ minimum training	Salary at top of scale/minimum training	Ratio of starting salary to per capita	Ratio of salary after 15 years' experience to per capita GDP	Ratio of salary Ratio of salary Years after 15 years' after 15 years' from experience to experience to starting to salary top salary	Years from starting to top salary	Percentage additional bonus *	Salary after 15 years' experience per teaching hour	Salary after 15 years' experience per student enrolled
Indonesia	4,018	5,655	8,773	1.2	1.6	1.4	33	18	9	349
Malaysia	17,682	27,956	38,673	1.6	5.6	1.6	22	. 7	. ye	1 490
Philippines	2,090	7,318	7,412	2.1	2.1	-	52	32	}	188
Thailand	229	1,203	2,149	0.1	0.2	2.2	4	ļ œ	2	<u> </u>
Australia	10 166	24.807	34 907				= .		)   z	: }: 
Korea	23,960	42,597	67.448	. e	- es	. <del>.</del>	7 4	<b>-</b>	\$	1 844
New Zealand	14,730	23,965	23,965	0.8	4	φ.	: 00	4	3 8	5

\* Percentage additional bonus is an average of two ratios: maximum bonus applicable to starting salary and maximum bonus applicable to salary at top of

a Data not applicable because the category does not apply

n Magnitude is either negligible or zero.

Notes on Coverage:

Australia: New South Wales school system only.

esponsibilities in addition to teaching duties. Bonuses refer to staffing incentive allowance (hard to staff schools), isolation allowance, and normal school allowance (where trainee teachers are provided under the supervision of a qualified teacher). Additional remuneration a teacher may be entitled to for extra/special duties performed or any additional bonuses available due to the nature of the school or position/tasks the teacher may be fulfilling is not New Zealand: Salaries do not include the additional remuneration teachers are entitled to when they take on senior positions or management ncluded.

## Notes on Interpretation:

performance units that may be awarded. Performance units are awarded at the discretion of the school. In total performance/management units account for New Zealand: Provision is made for performance based pay for teachers. This means that the salary level indicated at the top of the teaching scale is not accounts for 3 yearly salary increments for upper secondary (vocational) teachers. Performance criteria account for all other salary increments (associated evel to get 3 or 4 performance units in addition to the basic salary. Performance units are worth\$NZ2,350 each. There is no upper limit on the number of Australia: Bonuses: Seniority accounts for 12 yearly salary increments for primary, lower secondary and upper secondary (general) teachers. Seniority necessarily the level at which the pay for a teacher with 15 years experience and minimum quaifications stops. It is not uncommon for a teacher at this about 20 percent of the total cost of teachers' remuneration.

Indonesia: The top of the salary scale is theoretical, including an increment for earning a Ph.D. There are almost no Ph.D. graduates teaching in primary

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Source:

Table 4.3 d

Annual Statutory Teachers' Salaries in Public Institutions at the Upper Secondary Level of Education, Vocational Programmes, in equivalent US dollars converted using PPPs, 1996

Country	Starting salary/ minimum training	Salary after 15 years' experience/ minimum training	Salary at top of scale/ minimum training	Ratio of starting salary to per capita GDP	Ratio of salary after 15 years' experience to per capita GDP	Ratio of salary after 15 years' experience to starting salary	Years from starting to top salary	Percentage additional bonus *	Salary after 15 years' experience per teaching hour	Salary after Salary after 15 15 years' years' experience per student bour enrolled
Indonesia	4,018	5,655	8,773	1.2	1.6	1.4	33	18	9	349
Malaysia	17,682	27,956	38,673	1.6	2.6	1.6	22	7	8	1,490
Philippines	æ	a	æ	Ø	œ	Ø	æ	Ø	Ø	æ
Thailand	559	1,203	2,149	0.1	0.2	2.2	42	œ	7	90
Australia		•						r »		
(New South Wales)	31,249	36,388	36,388	1.5	8.	1.2	ო	<b>c</b>		٤
Korea	24,626	43,453	68,400	1.8 8.1	3.2	<b>6.</b>	4		95	1881

\* Percentage additional bonus is an average of two ratios: maximum bonus applicable to starting salary and maximum bonus applicable to salary at top of scale. Notes:

Data not applicable because the category does not apply

n Magnitude is either negligible or zero.

Notes on Coverage:

Australia: New South Wales school system only.

addition to teaching duties. Bonuses refer to staffing incentive allowance (hard to staff schools), isolation allowance, and normal school allowance (where trainee teachers are provided under the supervision of a qualified teacher). Additional remuneration a teacher may be entitled to for extra/special duties performed or any New\_Zealand: Salaries do not include the additional remuneration teachers are entitled to when they take on senior positions or management responsibilities in additional bonuses available due to the nature of the school or position/tasks the teacher may be fulfilling is not included.

Notes on Interpretation:

Australia: Bonuses: Seniority accounts for 12 yearly salary increments for primary, lower secondary and upper secondary (general) teachers. Seniority accounts or 3 yearly salary increments for upper secondary (vocational) teachers. Performance criteria account for all other salary increments (associated with promotions positions).

necessarily the level at which the pay for a teacher with 15 years experience and minimum qualifications stops. It is not uncommon for a teacher at this level to get that may be awarded. Performance units are awarded at the discretion of the school. In total performance/management units account for about 20 percent of the 3 or 4 performance units in addition to the basic salary. Performance units are worth\$NZ2,350 each. There is no upper limit on the number of performance units New Zéaland: Provision is made for performance based pay for teachers. This means that the salary level indicated at the top of the teaching scale is not otal cost of teachers' remuneration.

Indonesia: The top of the salary scale is theoretical, including an increment for earning a Ph.D. There are almost no Ph.D. graduates teaching in primary

Source: OECD 1998

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Table 4.4 Changes in Public Sector Teacher Real Salaries, 1980s and 1990s (index 1980=100)

	_			Year		
Country	Level	1980	1982	1985	1988	1990s
Myanmar	Primary	. ***		100		106 (1993)
	Secondary	**************************************	No.	100		87 (1993)
Indonesia	Primary	100	P <sup>2</sup> a management	158	134	162 (1993)
Korea, Rep.	Public Primary	r mer e grammer.	11 8¥	100	125 (1989)	141 (1993)
	Public Secondary	**		100		160 (1993)
	Private University	100 (197	78)	184 (1986)	196 (1989)	
	Public University			100		200 (1993)
Hong Kong	Primary / Secondary		100	103 (1986)		142 (1994)
Singapore	Primary / Secondary	$(\mathbf{c} - \mathbf{w}_{p})^{-1}$		100		105 (1993)

Source:

ILO 1996



Table 4.5

Percentage of Decisions Taken at Each Level of Government in Public Lower Secondary Education (%), 1998

Country	Central	State	Provincial/ Regional	Sub- Regional	Local	School
China	21		3		30	46
Indonesia	63		7			30
Malaysia	82					18
Philippines	37		24			39
Thailand	55					45
Korea	37		31	7	w	25
New <sub>i</sub> Zealand	34				<u> </u>	66

Blanks indicate that the level of government does not have primary responsibility for the types of decisions covered in this domain.

## Level of decision-making:

Central Government: The central government consists of all bodies at the national level that make decisions or participate in different aspects of decision-making, including both administrative (government bureaucracy) and legislative bodies (e.g. parliament).

State Governments: The state is the first territorial unit below the nation in "federal" countries or countries with similar types of governmental structures. State governments are the governmental units that are the decision making bodies at this governmental level.

Provincial/Regional Authorities or Governments: The province or the region is the first territorial unit below the national level in countries that do not have a "federal" or similar type of governmental structure and the second territorial unit below the nation in countries with a "federal" or similar types of governmental structures. Provincial/regional authorities or governments are the decision making bodies at this governmental level.

Sub-Regional or Inter-Municipal Authorities or Governments: The sub-region is the second territorial unit below the nation in countries that do not have a "federal" or similar type of governmental structure. Sub-regional or inter-municipal authorities or governments are the decision-making bodies at this governmental level.

Local Authorities or Governments: The municipality or community is the smallest territorial unit in the nation with a governing authority. The local authority may be the education department within a general-purpose local government or it may be a special-purpose government whose sole area of authority is education.

School, School Board or Committee: The school attendance area is the territorial unit in which a school is located. This level applies to the individual school level only and includes school administrators and teachers or a school board or committee established exclusively for that individual school. The decision-making body- or bodies- for this school may be: i) an external school board, which includes residents of the larger community; ii) an internal school board, which could include headmasters, teachers, other school staff, parents and students; and iii) both an external and an internal school board. Parents and teachers were considered as an element of the school level.

Source:



Table 4.6 Different Types of Decision Taken at Different Levels of Government, Lower Secondary Education, 1998

	Operation of Instruction	f Instruction	_					,
	School Attended by Students	School Careers of Students	Instruction Time	Instruction Choice of Text Time Books	Criteria for Grouping Students	Additional Support Activities for Students	Teaching Methods	Assessment Methods of Students' Regular Work
China		<b>\$</b>	-	b	•	•	•	0
falaysia	•	-	-	•	<b>\$</b>	•	•	•
ndonesia	•	•	-	•	•	•	-	•
hailand	•	<b>\$</b>	-	<b>\$</b>	•	•	•	•
hilippines	<b>*</b>	<b>\$</b>	0	<b>\$</b>	•	•	<b>\$</b>	•
Korea	0	<b>\</b>		<b>\</b>	•	•	•	<b>\$</b>
w Zealand	<b>\$</b>	<b>\$</b>	•	•	•	. ;		•. •

<b>\</b>	School	•
4	Local level	◀
ο ·	Intermediate levels	•
0	Central level	-
framework		autonomy
consultation or within		taken in full
Decision taken in		Decision

								TOTAL PROPERTY.				
China		<b>\$</b>	•	b	•	•	•	0		-	Central level	level
Malaysia	•	-	•	-	<b>\$</b>	•	•	•		•	Intermediate levels	ate levels
Indonesia	•	•	•	•	•	•	•	•		◀	Local level	level
Thailand	•	<b>\$</b>	•	<b>\$</b>	•	•	•	•		•	School	<u>8</u>
Philippines	<b>\( \)</b>	<b>\$</b>	0	<b>\$</b>	•	•	<b>\$</b>	•	•			
Korea	0	<b>\</b>		<b>\ \</b>	•	•	•	<b>\langle</b>				
New Zealand	<b>♦</b>	<b>\$</b>	•	•	•	· · · · · · · · · · · · · · · · · · ·		•				
	Personnel Management	Managemer	ıt									
	Himg of Principal	Hiring of Teacher	Hiring of non- Dismissal of Dismissal of Teaching Staff Principal Teacher	Dismissal of Principal	Dismissal of Teacher	Dismissal of Non-Teaching staff	Duties/ Conditions of Service, Principal	Duties/ Conditions of Service, Teacher	Duties/ Conditions of Service, non- teaching Staff	Fixing of Salary Scales for Principal	Duties/ Duties/ Duties/ Fluing of Fluing of Conditions of Conditions of Selary Scales Salary Scales Service, nor Entropal Function of Selary Scales Selary Selary Scales Selary Scales Selary Scales Selary Selary Selary Scales Selary S	Fixing of Satary Scales for Non- Teaching Staff
China	4	•	•	4	•	•	4	<b>\$</b>	<b>\$</b>	0	0	0

Career of Teacher

Career of Principal

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	Planning ar	Planning and Structures	52				i	İ	Resources	ı	;				i
	Creation/ Closure of a School	Creation/ Creation/ Closure of a Abolition of A School Grade Level	Designing Programmes or a Specific School Type	Selection of Programmes Offered in a School	Range of Subjects Taught in a School	Definition of Course Content	Setting examinations for a Certificate/ Diploma	Setting examinations Credentialling Allocation to Allocati	Allocation to School for Teaching Staff	Altocation to School for Non-Teaching Staff	Allocation to School for Other Current Expenditure	Allocation to School for Capital Expenditure	Use in School Use in School Use in School for Other for Capital for Staff Current Expenditure Expenditure	Use in School for Other Current Expenditure	Use in School for Capital Expenditure
China	₫			<b>\</b>	0	-	-	₫	4	4	•	•	<b>*</b>	•	•
falaysia	0		•	•	<b>\$</b>	•		•	•	•	•	•	<b>\$</b>	•	-
ndonesia	0	•	•	•	•	0		•	•	-	•	•		-	-
Pailand	•	-	•	•	<b>\$</b>	-	<b>\$</b>	<b>\$</b>	•	-	-	-	<b>\$</b>	-	-
Philippines	0	0	0	0	_	0	0	0	0	0	0	0	<b>\$</b>	<b>\$</b>	<b>\$</b>
Korea	0						· •		0	O	0	0	0	•	0
ew Zealand	0	•	<u>`</u>	<b>\$</b>	<b>\</b>	_	0	•		<b>*</b>			i,	•	-
Source:	OECD 1998														

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Table 4.7 a
Teacher's Report on Average Size of Mathematics Class, Fourth Grade\*, 1994/1995
TIMSS Report

	1-20	Students	21-30	Students	31-40	Students	41 or M	ore Students	
Country	Percent of Student (%)	Mean	Percent of Student (%)	Mean	Percent of Student (%)	Mean Achievement	Percent of Student (%)	Mean	Average Number of Students
Thailand	28 (4.1)	490 (5.4)	29 (4.9)	493 (10.9)	36 (5.7)	495 (11.4)	7 (5.2)	445 (1.7)	27 (2.0)
Australia	r 17(3.1)	551 (5.6)	64 (4.8)	546 (5.4)	19 (4.7)	543 (10.0)	0 (0.0)	~~	r 25(0.6)
Hong Kong	0 (0.4)	~~	13 (4.1)	573 (22.5)	74 (4.8)	590 (5.1)	13 (3.2)	608 (8.7)	36 (0.5)
Japan	3 (0.8)	593 (5.3)	29 (3.5)	595 (3.3)	67 (3.6)	598 (2.7)	1 (1.1)	~~	32 (0.4)
Korea	2 (1.0)	~~	6 (1.6)	583 (9.7)	24 (3.6)	602 (5.1)	69 (3.5)	617 (2.8)	43 (0.6)
New Zealand	13 (2.6)	500 (11.5)	37 (4.3)	490 (8,6)	50 (4.5)	507 (5.9)	0 (0.0)	<b></b>	29 (0.5)
Singapore	0 (0.0)	~~	2 (0.8)	~~	68 (3.3)	620 (5.8)	30 (3.2)	646 (11.0)	39 (0.2)

\*Fourth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some differences may appear inconsistent.

A tilde (~) indicates insufficient data to report achievement.

An "r" indicates teacher response data available for 70-84% of students.

Source:

IEA 1997a



Table 4.7 b
Teacher's Report on Average Size of Science Class, Fourth Grade\*, 1994/1995
TIMSS Report

	1-20	) Students	21-3	0 Students	31-4	0 Students	41 or M	lore Students	
Country	Percent of Student (%)	Mean	Percent of Student (%)	Mean	Percent of Student (%)	Mean	Percent of Student (%)	Mean Achievement	Average Number of Students
Thailand	28 (4.2)	477 (5.3)	29 (5.0)	478 (11.2)	36 (5.7)	478 (11.9)	7 (5.2)	438 (2.7)	28 (2.0)
Australia	17(3.1)	582 (5.3)	64 (4.9)	558 (5.3)	19 (4.8)	555 (9.2)	0 (0.0)	~~	r 25(0.6)
Hong Kong	0 (0.4)	~~	13 (4.2)	516 (19.0)	74 (4.9)	536 (4.5)	13 (3.2)	559 (7.3)	36 (0.5)
Japan	3 (0.8)	577 (7.8)	29 (3.5)	570 (3.2)	67 (3.6)	575 (2.2)	1 (1.1)	~~	32 (0.4)
Korea	2 (1.0)	~~	6 (1.6)	574 (6.4)	24 (3.6)	590 (3.9)	69 (3.5)	602 (2.5)	43 (0.6)
New Zealand	13 (2.4)	539 (9.0)	37 (4.2)	516 (9.8)	50 (4.4)	543 (6.0)	0 (0.0)	~~	29 (0.5)
Singapore	0 (0.0)	<b>;;~</b>	2 (0.8)	~~	68 (3.3)	:542 (5.5)	30 (3.2)	566 (10.5)	39 (0.2)

\*Fourth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some differences may appear inconsistent.

A tilde (~) indicates insufficient data to report achievement.

An "r" indicates teacher response data available for 70-84% of students.

Source:

IEA 1997b



Table 4.8 a
Teacher's Report on Average Size of Mathematics Class, Eighth Grade\*, 1994/1995
TIMSS Report

	1-20	) Students	21-3	0 Students	31-40	Students	41 or M	ore Students
Country	Percent of Student (%)	Mean .	Percent of Student (%)	Mean	Percent of Student (%)	Mean Achievement	Percent of Student (%)	Mean
Thailand	xx	xx	xx	xx	хх	xx	xx	xx .
Australia	13(2.4)	497 (14.6)	71 (3.3)	528 (5.4)	16 (2.6)	583 (9.7)	1 (0.5)	~~
Hong Kong	3 (1.9)	501 (63.7)	4 (2.2)	605 (35.3)	56 (5.7)	584 (10.7)	37 (5.9)	606 (10.1)
Japan	0 (0.2)	~~	4 (1.4)	598 (8.5)	88 (2.0)	600 (2.2)	8 (1.5)	667 (10.1)
Korea	2 (1.2)	~~	1 (1.0)	~~	4 (1.5)	562 (6.6)	93 (2.0)	611 (2.6)
New Zealand	11 (2.2)	460 (6.8)	80 (3.8)	496 (6.9)	8 (2.7)	543 (18.4)	0 (0.0)	~~
Singapore	1 (0.7)	~~	10 (2.5)	645 (13.2)	72 (4.3)	640 (6.2)	18 (4.0)	656 (8.8)

\*Eighth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some differences may appear inconsistent.

A tilde (~) indicates insufficient data to report achievement.

An "r" indicates teacher response data available for 70-84% of students. An "x" indicates teacher response data available for <50% of students.

Source:

IEA 1997c



Table 4.8 b
Teacher's Report on Average Size of Science Class, Eighth Grade\*, 1994/1995
TIMSS Report

	1-20	Students	21-3	0 Students	31-40	O Students	41 or M	ore Students
Country	Percent of Student (%)	Mean	Percent of Student (%)	Mean Achievement	Percent of Student (%)	Mean Achievement	Percent of Student (%)	Mean Achievement
Hong Kong	0 (0.0)		1 (1.2)	~~.	57 (6.5)	520 (7.5)	42 (6.5)	530 (7.9)
Japan	0 (0.2)	~~	4 (1.4)	570 (6.6)	88 (2.0)	567 (1.6)	8 (1.5)	615 (10.2)
Korea	6 (1.8)	573 (9.0)	1 (0.7)	~~	5 (1.5)	536 (8.1)	89 (2.5)	566 (2.3)
New Zealand	7 (1.8)	501 (12.4)	75 (3.5)	522 (5.7)	18 (3.0)	556 (8.0)	1 (0.0)	~~
Singapore.	0 (0.0)	~~	9 (2.4)	609 (15.7)	72 (4.2)	604 (7.3)	19 (4.0)	616 (7.7)

\*Eighth grade in most countries.

() Standard errors appear in parentheses. Because results are rounded to the nearest

whole number, some differences may appear inconsistent. A tilde (~) indicates insufficient data to report achievement.

Source:

IEA 1997d



Table 4.9 a
Teacher's Reports About Classroom Organization During Mathematics Lessons, Fourth
Grade\*, 1994/1995

## **TIMSS Report**

	Percent of	Students Who	se Teacher's R "Most or Eve		ch Organization	al Approach
Country	Work Together as a Class with Students Responding to One Another	Work Together as Class with Teacher Teaching the Whole Class	Work Individually with Assistance from Teacher	Work Individually without Assistance from Teacher	Work in Pairs or Small Groups with Assistance from Teacher	Work in Pairs or Small Groups without Assistance from Teacher
Thailand	10	·52	r 57	18	40	7
Australia	r 17	r 31	г 47	г 24	r 20	r 10
Hong Kong	5	39	49	1	3	1
Japan	50	- 78	34	25	7	2
Korea	50	77	- 57	37	30	20
New Zealand	20	16	47	25	47	24
Singapore	23	68	37	✓ 41	25	10 5

Notes:

\*Fourth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

An "r" indicates teacher response data available for 70-84% of students.

Source:

IEA 1997a



Table 4.9 b Teacher's Reports About Classroom Organization During Science Lessons, Fourth Grade\*, 1994/1995 **TIMSS Report** 

	Percent of Students Whose Teacher's Report Using Each Organizational Approach "Most or Every Lesson" (%)									
Country	Work Together as a Class with Students Responding to	Class with Teacher	Work Individually with Assistance from Teacher	Work Individually without Assistance from Teacher	Work in Pairs or Small Groups with Assistance from Teacher	or Small Groups without				
Thailand	г 6	r 49	г 41	г 8	г 34	r 13				
Australia	r 15	г 24	г 12	г 6	г 28	г 19				
Hong Kong	15	67	22	0	11	0				
Japan	51	68	18	4	24	12				
Korea	49	59	64	17	65	24				
New Zealand	28	18	21	14	39	20				
Singapore	21	.67	51	15	43	18				

\*Fourth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

An "r" indicates teacher response data available for 70-84% of students.

Source:

IEA 1997b



Table 4.10 a Teacher's Reports About Classroom Organization During Mathematics Lessons, Eighth Grade\*, 1994/1995

	Percent of S	Percent of Students Whose Teacher's Report Using Each Organizational Approach "Most or Every Lesson" (%)									
Country	Work Together as a Class with Students Responding to One Another	as Class with Teacher	Individually with Assistance	Work Individually without Assistance from Teacher	Work in Pairs or Small Groups with Assistance from Teacher	or Small Groups without Assistance					
Thailand	r 19	s 58	r 41	r 18	r 22	r 5					
Australia	r 14	г 46	г 64	r 27	r 25	r 9					
Hong Kong	11	37	62	17	9	4					
Japan	22	78	27	15	7	1					
Korea	39	89	41	30	12	11					
New Zealand	19	52	63	28	25	14					
Singapore	15	61	48	27	50	6					

Notes:

\*Eighth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students.

Source:

IEA 1997d



Table 4.10 b
Teacher's Reports About Classroom Organization During Science Lessons, Eighth Grade\*, 1994/1995
TIMSS Report

	Percent of S	Percent of Students Whose Teacher's Report Using Each Organizational Approach "Most or Every Lesson" (%)									
Country	Work Together as a Class with Students Responding to One Another	I IOOOTDOLOC	Work Individually with Assistance from Teacher	Work Individually without Assistance from Teacher	Work in Pairs or Small Groups with Assistance from Teacher	or Small Groups without Assistance					
Thailand	r 16	r 38	r 33	r 10	г 32	s 11					
Hong Kong	12	45	35	2	44	13					
Japan	19	79	12	8	12	6					
Когеа	34	83	28	8	15	3					
New Zealand	15	41	33	26	44	20					
Singapore	12	59	41	17	40	19					

\*Eighth grade in most countries.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students.

Source:

IEA 1997d



# 5. Student Achievement

Table 5.1

Student Achievement in Mathematics and Science at the Fourth and Eighth Grade Levels\*, 1994/1995

Country	Fourth Gra	de	Eighth Grade			
Country	Mathematics	Science	Mathematics	Science		
Thailand	490	473	522	525		
Australia	546	562 530		545		
Hong Kong	587	533	588	522		
Japan	597	574	605	571		
Korea	611	597	607	565		
New Zealand	499	53 <del>1</del>	508	525		
Singapore	625	<b>5</b> 47	643	607		
International Average	529	524	513	516		

Note:

\*Fourth and eighth grades in most countries.

Sources:

IEA 1997a, 1997b, 1997c, and 1997d



Table 5.2 a

Gender Differences in Mathematics and Science Achievement at the Fourth Grade-Level\*,
1994/1995

	Mathe	matics Achieve	ement	Science Achievement			
Country	Boys Mean	Girls Mean	Difference Absolute Value	Boys Mean	Girls Mean	Difference Absolute Value	
Thailand	485 (5.8)	496 (4.2)	11 (7.1)	471 (5.9)	474 (4.3)	3 (7.3)	
Australia	547 (3.5)	545 (3.7)	2 (5.1)	569 (3.3)	556 (3.2)	13 (4.6)	
Hong Kong	586 (4.7)	587 (4.2)	1 (6.3)	540 (4.1)	526 (3.8)	14 (5.6)	
Japan	601 (2.5)	593 (2.2)	8 (3.3)	580 (2.0)	567 (2.0)	14 (2.9)	
Korea	618 (2.5)	603 (2.6)	15 (3.6)	604 (2.2)	590 (2.5)	14 (3.9)	
New Zealand	494 (5.7)	504 (4.3)	10 (7.1)	527 (6.1)	535 (4.8)	8 (7.7)	
Singapore	620 (5.5)	630 (6.4)	10 (8.4)	549 (5.4)	545 (6.3)	<b>4 (8.3)</b>	
International Average	537	535	3	537	527	9	

Notes:

\*Fourth grade in most countries.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole

number, some differences may appear inconsistent.

Sources:

IEA 1997a and 1997b



Table 5.2 b Gender Differences in Mathematics and Science Achievement at the Eighth Grade-Level\*, 1994/1995

	Mathe	matics Achiev	ement	Science Achievement			
Country	Boys Mean	Girls Mean	Difference Absolute Value	Boys Mean	Girls Mean	Difference Absolute Value	
Thailand	517 (5.6)	526 (7.0)	9 (9.0)	524 (3.9)	526 (4.3)	2 (5.8)	
Australia	527 (5.1)	532 (4.6)	5 (6.9)	550 (5.2)	540 (4.1)	10 (6.6)	
Hong Kong	597 (7.7)	577:(7.7)	20 (10.9)	535 (5.5)	507 (5.1)	27 (7.5)	
Japan	609 (2.6)	600 (2.1)	9 (3.3)	579 (2.4)	562 (2.0)	17 (3.1)	
Korea	615 (3.2)	598 (3.4)	17 (4.7)	576 (2.7)	562 (2.0)	17 (3.1)	
New Zealand	512 (5.9)	503 (5.3)	9 (7.9)	538 (5.4)	512 (5.2)	25 (7.6)	
Singapore	642 (6.3)	645 (5.4)	2 (8,3)	612 (6.7)	603 (7.0)	9 (9.7)	
International Average	519	512	8	525	509	17	

Notes:

\*Eighth grade in most countries.

() Standard errors appear in parentheses. Because results are rounded to the nearest

whole number, some differences may appear inconsistent.

Sources:

IEA 1997c and 1997d



Table 5.3
Increases in Mathematics and Science Performance Between the Fourth and Eighth Grades\* Based on Fourth-Grade Performance Estimated on the Eighth-Grade Scale, 1994/1995

	M	athematics			Science	
Country	Estimated Fourth-Grade Mean on Eighth Grade Scale	Eighth- Grade Mean	Differences	Estimated Fourth-Grade Mean on Eighth-Grade Scale	Eighth- Grade Mean	Differences
Thailand	354 (9.1)	522 (5.7)	168 (10.7)	306 (15.2)	525 (3.7)	220 (15.6)
Australia	408 (8.4)	530 (4.0)	121 (9.3)	417 (14.4)	545 (3.9)	127 (14.9)
Hong Kong	447 (8.9)	588 (6.5)	141 (11.0)	381 (14.6)	522 (4.7)	142 (15.4)
Japan	457 (8.1)	605 (1.9)	148 (8.3)	431 (14.1)	571 (1.6)	140 (14.2)
Korea	471 (8.1)	607 (2.4)	137 (8.5)	460 (14.1)	565 (1.9)	105 (14.2)
New Zealand	362 (8.9)	508 (4.5)	146 (10.0)	378 (15.2)	525 (4.4)	147 (15.8)
Singapore	484 (9.4)	643 (4.9)	159 (10.6)	398 (15.2)	607 (5.5)	210 (16.2)

Notes:

() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some differences may appear inconsistent.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

Provides an estimate of how the fourth-grade students would have performed on the eighth-grade scale. Since there are only 15 mathematics items and 18 science items in common in the tests given to the two grades, the estimate of the relationship is approximate.

The standard error for the fourth-grade estimate incorporates an added component to account for the uncertainty of this approximation.

Sources:

IEA 1997a and 1997b



<sup>\*</sup>Fourth and eighth grades in most countries.

Table 5.4 a
Students' Reports on Frequency with Which They Speak the Language of the Test at
Home - Mathematics, Fourth Grade\*, 1994/1995
TIMSS Report

_	N	ever	Som	etimes	Always or Almost Always		
Country	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	
Thailand	hailand 11 (1.6) 457 (10.8)		29 (2.4)	29 (2.4) 483 (4.9)		498 (5.3)	
Australia	1 (0.2)		9 (0.9)	524 (10.9)	89 (1.0)	550 (2.8)	
Korea	1 (0.1)		10 (0.7)	603 (4.6)	89 (0.7)	613 (2.3)	
New Zealand	2 (0.2)		11 (1.0)	450 (8.0)	87 (1.1)	509 (4.3)	
Singapore			71 (1.3)	618 (4.4)	20 (1.5)	676 (7.9)	

\*Fourth grade in most countries.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole

number, some differences may appear inconsistent.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

Includes countries that participated in TIMSS achievement testing at both fourth and eighth grades.

Source:

IEA 1997a



Table 5.4 b
Students' Reports on Frequency with Which They Speak the Language of the Test at Home - Science, Fourth Grade\*, 1994/1995
TIMSS Report

	No.	ever	Som	etimes	Always or Almost Always		
Country	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	
Thailand	11 (1.6)	439 (12.3)	29 (2.4)	464 (5.2)	60 (2.9)	482 (5.4)	
Australia	1 (0.2)		9 (0.9)	518 (7.9)	89 (1.0)	568 (2.6)	
Korea	1 (0.1)		10 (0.7)	586 (4.2)	89 (0.7)	599 (2.0)	
New Zealand	2 (0:2)		11 (1.0)	461 (7.7)	87 (1.1)	544 (4.8)	
Singapore	9 (0.6)	486 (5.2)	71 (1,3)	538 (4.2)	20 (1.5)	607 (7.3)	

\*Fourth grade in most countries.

() Standard errors appear in parentheses. Because results are rounded to the nearest whole

number, some differences may appear inconsistent.

Countries shown in italics did not satisfy one or more guidelines for sample participation rates,

age/grade specifications, or classroom sampling procedures.

Includes countries that participated in TIMSS achievement testing at both fourth and eighth grades.

Source:

IEA 1997b



Table 5.5 a
Students' Reports on the Highest Level of Education of Either Parent<sup>1</sup>-Mathematics\*, Eighth Grade, 1994/1995

Country	Finished University		Finished Upper Secondary School But Not University		School B	ed Primary But Not Upper Dary School	Do Not Know		
	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	
Thailand	9 (1.4)	571 (9.5)	14 (1.4)	543 (8.9)	73 (2.6)	513 (4.4)	3 (0.5)	524 (12.3)	
Australia	28 (1.4)	572 (4.4)	37 (0.9)	528 (4.4)	24 (0.9)	510 (3.6)	11 (0.6)	494 (4.9)	
Hong Kong	7 (1.0)	638 (8:6)	30 (1.2)	607 (6.6)	55 (1.8)	584 (5.9)	7 (0.7)	554 (12.6)	
Korea	22 (1.3)	654 (5.1)	47 (1.3)	607 (2.8)	26 (1.1)	575 (4.2)	5 (0.5)	573 (9.3)	
New Zealand	25 (1.3)	543 (6.0)	38 (1.1)	504 (4.4)	15 (0.8)	491 (5.7)	21 (1.1)	494 (5.4)	
Singapore	8 (1.0)	692 (7.5)	<u>6</u> 9 (1.0)	645 (5.0)	23 (1.2)	623 (4.9)			

Notes:

In most countries, defined as completion of at least a 4-year degree program at a university or an equivalent institute of higher education.

Finished upper secondary school with or without some tertiary education not equivalent to a university degree. In most countries, finished secondary corresponds to completion of an upper-secondary track terminating after 11 to 13 years of schooling.

( ) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent. Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

Source:

IEA 1997c



<sup>\*</sup> Eighth grade in most countries.

<sup>&</sup>lt;sup>1</sup> The response categories were defined by each country to conform to their own educational system and may not be strictly comparable across countries.

Table 5.5 b
Students' Reports on the Highest Level of Education of Either Parent<sup>1</sup>-Science, Eighth Grade\*, 1994/1995

Country	Finished University		Finished Upper Secondary School But Not University		But Not U	Primary School pper Secondary School	Do Not Know		
	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	Percent of Students (%)	Mean Achievement	
Thailand	9 (1.4)	557 (6.7)	14 (1.4)	540 (5.9)	73 (2.6)	519 (2.9)	3 (0.5)	522 (10.2)	
Australia	28 (1.4)	587 (4.5)	37 (0.9)	544 (4.1)	24 (0.9)	527 (4.4)	11 (0.6)	499 (5.3)	
Hong Kong	7 (1.0)	547 (8.6)	30 (1.2)	537 (5.1)	55 (1.8)	519 (4.7)	7 (0.7)	498 (8.5)	
Korea	22 (1.3)	593 (3.9)	47 (1.3)	566 (2.4)	26 (1.1)	546 (3.4)	5 (0.5)	529 (7.1)	
New Zealand	25 (1.3)	560 (5.5)	38 (1.1)	530 (4.4)	15 (0.8)	503 (6.0)	21 (1.1)	505 (5.8)	
Singapore	8 (1.0)	661 (8.4)	69 (1.0)	612 (5.5)	23 (1.2)	578 (5.1)			

#### Notes:

In most countries, defined as completion of at least a 4-year degree program at a university or an equivalent institute of higher education.

Finished upper secondary school with or without some tertiary education not equivalent to a university degree. In most countries, finished secondary corresponds to completion of an upper-secondary track terminating after 11 to 13 years of schooling.

( ) Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent. Countries shown in italics did not satisfy one or more guidelines for sample participation rates, age/grade specifications, or classroom sampling procedures.

Source:

IEA 1997d



<sup>\*</sup> Eighth grade in most countries.

<sup>&</sup>lt;sup>1</sup> The response categories were defined by each country to conform to their own educational system and may not be strictly comparable across countries.

6. Social and Labor Market Outcomes of Education



Table 6.1
Fertility Rates by Level of Education in Selected Countries, Various Years from 1984 to 1997

Measures of Current and Cumulative Fertility According to Respondents' Education, 1984\*

		Total Marital Fertility Rate**, by Years of Education					Children ever Born***, by Years of Education			
	Zero (1)	One to Three (2)	Four to Six (3)	Seven or More (4)	Difference (1)-(4)	Zero (1)	One to Three (2)	Four to Six (3)	Seven or More (4)	Difference (1)-(4)
Fiji	5	5.1	5.2	4.6	0.4	6.9	7.1	6.1	5.6	1.3
Indonesia	5	5.5	5.5	5	0	5.2	6.1	5.6	4.5	0.7
Malaysia	6.2	6	5.8	4	2.2	6.3	6.2	5.9	3.7	2.6
Philippines	6.7	7.4	6.9	5	1.7	7	7.4	6.9	5.2	1.8
Thailand	5.5	5.7	5.4	3.2	2.3	6.4	6.6	6.5	4	2.4
Korea, Rep.	6.2	5.6	5	3.8	2.4	6	5.7	5.2	4	2

Notes:

Indonesia and Thailand: Children ever born based on ever married women aged 40-49, rather than on all women of these ages.

Source:

United Nations 1987

Vietnam, 1992-1993: Mean Number of Children Ever Born to Married Women Aged 20-39 in Rural Vietnam

		Level of School	ling Completed by V	/omen	
Age	No Schooling	Primary Incomplete	Lower secondary incomplete	Upper Secondary Incomplete	Upper Secondary Completed
20-24	1.35	1.27	1.28	1.25	0.94
25-29	2.81	2.65	2.27	2.14	1.78
30-34	4.07	3.55	3.13	2.87	2.48
35-39	5.04	4.53	3.79	3.48	2.86
25-39	3.57	3.24	2.72	2.43	1.90

Source:

Dollar, Glewwe, and Litvack (Eds.) 1998. (Original source: 1992-1993 Vietnam Living Standards Survey).

#### Indonesia, 1997

	<u> </u>	Level of Edu	ucation	
	No Education	Some Primary	Completed Primary	Some Secondary+
Total Fertility Rate to All women aged 15-49	2.66	3.23	2.96	2.55
Mean Number of Children Ever Born to Women aged 40-49	4.27	4.75	4.34	3.59

Source:

Central Bureau of Statistics, State Ministry of Population/National Family Planning Coordinating Board, Ministry of Health, and Macro International Inc., 1998.

#### Papua New Guinea, 1996

		Level of Ed	ucation		
	No Education	Grades 1-5	Grade 6	Grades 7+	Total_
Total Fertility Rate for the Five- Years preceding the Survey	4.97	4.74	5.10	3.85	4.84
Mean Number of Children Ever Born to Women aged 40-49	5.40	5.77	5.46	4.54	5.40

Source:

National Statistical Office, Papua New Guinea 1996.



<sup>\*</sup> The source does not specify the year when the survey was conducted; therefore, this study refers to the year when the original source was published. (Original source is Ashurst, Hazel, Sundat Balkaran and J.B. Casterline 1984, Socio-Economic Differentials in Recent Fertility. World Fertility Survey Comparative Studies, No. 33; Cross-National Summaries. Voorburg, The Netherlands: International Statistical Institute.)

<sup>\*\*</sup>Total Marital Fertility Rate measures fertility only among married women, specifically women for the first 25 years of marriage in the original study.

<sup>\*\*\*</sup>Mean Number of Children Ever Born to Women Aged 40-49

Table 6.2 a Net Enrollment Rates by Income Quintile in Vietnam, 1993

Vietnam: Net Enrollment Rates by Income Quintile, 1993

		In	come Quin	tile	4.
	Poorest	. II	111	IV	Richest
Primary	67.7	77.3	80.7	84.7	86.2
Lower Secondary	18.6	25.7	36.3	44.2	56.0
Upper Secondary	1.9	3.0	6.9	12.8	27.6
Post Secondary	0.0	0.4	1.0	1.9	7.0

Source: World Bank 1995e



Table 6.2 b Level of Education Attainment at Ages 15 to 19 (%), by Income, Gender, and Urban and Rural, Indonesia, 1991 & 1994, and Philippines, 1993 \*

### Indonesia 1991

Condott	AII		Income		Ge	nder	Lishan	Rural	Male/	Male/	Female/	Female/
Grade**	All	Richest	Middle	Poorest	Male	Female		Nulai	Urban	Rural	Urban	Rural
1	97	99	99	95	98	97	99	97	99	98	99	96
2	96	99	98	93	97	96	98	96	98	97	98	94
3	94	98	96	89	95	93	97	93	97	94	97	91
4	91	97	93	84	92	90	95	89	96	91	95	87
5	88	97	91	78	89	86	94	84	95	86	93	82
6	83	95	87	71	85	82	91	80	93	82	90	77
7	52	80	56	28	57	47	71	42	76	47	67	37
8	47	75	51	25	51	44	67	38	71	42	63	34
9	40	66	42	19	42	37	57	31	59	34	55	28

### Indonesia 1994

111401103						_						
Grade**	All		Income	-	Ge	nder	Urban	Rural	Male/	Male/	Female/	Female/
0.000	'	Richest	Middle	Poorest	Male	Female			Urban	Rural	Urban	Rural
1	98	100	99	96	98	98	99	97	99	98	99	97
2	97	99	98	94	97	97	99	96	99	96	99	96
3	95	98	96	91	95	95	97	93	98	93	97	94
4	92	97	95	86	92	92	96	90	96	90	97	89
5	88	96	92	79	88	88	94	85	94	85	95	85
6	85	95	88	73	85	85	92	80	91	81	94	80
7	53	80	57	29	55	51	73	42	75	44	71	39
8	49	77	53	25	50	48	70	37	71	39	68	36
9	42	69	45	19	43	41	63	30	64	31	62	28

#### Philippines 1993

Condett	Ali	-	Income		Ge	nder	Urban	Pural	Male/	Male/	Female/	Female/
Grade**	All	Richest	Middle	Poorest	Male	Female		Nulai	Urban	Rural	Urban	Rural
1	99	100	99	97	99	99	99	98	99	98	99	98
2	98	100	99	96	98	98	99	97	99	97	99	98
3	97	99	98	92	96	98	98	94	98	93	99	96
4	94	99	97	87	92	96	97	91	97	88	98	94
5	91	98	95	80	88	94	95	86	94	83	96	91
6	87	97	93	74	84	91	92	81	90	77	94	88
7	75	90	83	56	71	80	82	67	80	62	84	75
8	68	86	76	46	62	74	75	60	72	53	79	68
9	55	74	62	32	49	61	62	46	59	39	65	55

Note: \* The raw data used in this study are contributed by the authors (see below), and the original source is

Demographic Health Surveys (DHS).

\*\* Grades in this table indicate completed grades, not years of schooling, nor grades enrolled.

Source: Filmer and Pritchett 1998.



Table 6.3 Economically Active Population by Level of Educational Attainment and Gender, Various Years from 1995 to 1997

						Le l	vel of Educ	Level of Education attainment	nent			
						Secon	Second Level		Third Level			
Country (year)		Total Economically Active Population	No Schooling (%)	Education preceding the first level (%)	First Level (%)	First Stage (%)	Second Stage (%)	First Stage: leading to an award not equivalent to a first university degree (%)	First stage: leading to a first university degree or equivalent qualification (%)	Second Stage (%)	Education not definable by Level (%)	Level not Stated (%)
Indonesia <sup>2</sup> (1996)	Total Male	154,464,763 76,514,727	9.2	23.9	36.3	14.1	13.9	1.3	1.2			
	Female	77,930,236	12.3	24.7	36.3	13.0	11.8	1.0	0.0			
Australia 15 8	Total	8,336,100	: .			34.8	16.6	33.7	10.4	4.4		
	Male	4,809,800	1.0		. S.	33.3	15.9	36.9	9.4	4.5		
	Female	3,526,200				36.9	17.7	29.3	11.7	4.3		<u> </u>
Japan <sup>2</sup>	Total	63 230 000	0.1		20.5		48.8	12.3	18.2		- 131.69 1411 - 1	
(1996)	Male	38,020,000			50.9	ì	46.9	6.9	25.2		*	
•	Female	25,210,000	0.1	다. (건)	19.9		51.6	20.7	7.7		 	
Korea, Republic of <sup>123</sup>	Total	21,188,000	20.2	ا اعمراً		16.1	0.44	19.7				
(1996)	Male	12,620,000				15.3	39.4	23.4		. '	41 2 7 W .	
				r.		<u>:</u>		?				
New Zealand 2 7 8	Total	1,813,000	22.3		9.0	11.8	12.0	37.6	10.3	3.4	1.9	0.2
	Male	1,005,000	23.1		9.0	10.1	11.0	38.8	10.6	3.8	1.6	0.2
	Female	808,000	21.3		0.5	13.7	13.4	36.0	හ හ	2.7	2.4	-
Singapore 2 4	Total	1,801,900	<b>4</b> .3	1.1	9.6	14.0	30.5	18.9	11.6			
	Male	1,054,600	3.3	12.4	10.5	16.2	26.8	18.8	12.0			
	Lailaid	004'74	0.0	6.5	9	8.0	025.0	2	7.11		700	



Percentages in this table are calculated for this study, based on the raw data from the original source.

Excl. Armed forces.

<sup>2</sup> Persons aged 15 years and over.

3 Excl. Resident foreigners.

June of each year.

Persons aged 15 to 64.

May of each year.

March - May of each year

Civilian usually resident population.

The economically active population comprises all persons of either sex who furnish the supply of labour for the production of goods and services during a specified time-reference period.

evel of education attainment is based on the International Standard Classification of Education (ISCED), adopted in 1976 by UNESCO

Education preceding the first level : Education delivered in kindergartens, nursery schools as well as in infant classes attached to primary schools. No schooling: Less than one year of schooling

understanding of other subjects such as national history, geography, natural science, social science, art, music and religious instruction. Children enter First level: Programmes are designed to give the students a sound basic education in reading, writing and arithmetic along with an elementary these programmes when they are 5 to 7 years old. Literacy programmes for adults are also to be classified under Level 1.

beginnings of specialization may be seen at this level with some students having the opportunity to direct their attention more particularly to certain types of Second level, first stage: The basic programmes constituting the first level are continued, but usually on a more subject-oriented pattem. Some small specific occupation and often associated with relatively unskilled jobs, as well as apprenticeship programmes for skilled trades and crafts that provide subjects, e.g. commercial or technical subjects. vocational programmes designed to train for a specific occupation and often associated to train for a

Second level, second stage: General education continues to be an important constituent of the programmes, but separate subject presentation and more emphasis or apprenticeship programmes, with an entrance requirement of eight full years of education, or a combination of basic education and vocational specialization are found at this level. Also to be classified under Level 3 are programmes consisting of subject matter mainly with a specific vocational experience that demonstrates the ability to handle the subject matter of that level Third level, first stage, leading to an award not equivalent to a first university degree : Programmes of this type are usually "practical" in orientation in what hey are designed to prepare students for particular vocational fields in which they can qualify as high level technicians, teachers, nurses, production

university degrees such as a "Bachelor's degree", a "License", etc., as well as those which lead to first professional degrees such as "Doctorates" awarded Third level, first stage, leading to a first university degree or equivalent qualification: Programmes of this type comprise those leading to typical first after completion of studies in medicine, engineering, law, etc.

Third level, second stage: Programmes leading to a post-graduate university degree or equivalent qualification. Programmes of this type generally equire a first university degree or equivalent qualification for admission. They are intended to reflect specialization within a given subject area.

Education not definable by level: Programmes for which there are no entrance requirement.

Source:

5

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Table 6.4 Employment/Population Ratios of Youths by Level of Educational Attainment and Age Group, 1996

		Below e	Below upper secondary education (%)	ondary %)	Upper sec	Jpper secondary education (%)	ducation	Non-university tertiary education (%)	versity Jucation	University-level education (%)	ty-level on (%)	All levels of education	of educa	ion (%)
Country		Age 15-19	Age 20-24	Age 25-29	Age 15-19	Age 20-24	Age 25-29	Age 20-24	Age 25-29	Age 20-24	Age 25-29	Age 15-19	Age 20-24	Age
Malaysia	Total	42.7	74.9	70.8	19.8	77.5	78.7	×	×	38.2	87.9	29.5	72.2	757
	Men	51.3	93.3	96.5	20.5	87.3	97.0	×	×	40.3	91.8	34.5	85.4	96.2
	Women	32.2	51.8	43.0	19.1	68.4	60.1	×	×	36.0	83.5	24.2	58.1	1.75
Thailand	Total	45.2	82.3	84.6	26.2	52.5	86.7	42.8	86.5	72.8	91.7	40.1	75.7	85.4
	Men	47.5	90.4	95.0	27.4	58.0	8	38.5	91.6	71.2	94.2	41.9	81.8	7.46
	Women	45.8	74.0	74.0	25.2	46.8	76.0	48.1	81.6	74.2	89.6	38.1	69.4	75.9
Australia	Total	40.1	62.8	8	62.6	74.9	80.2	81.2	90.8	83.0	87.8	46.6	73.2	75.7
	Men	38.8	70.6	78.8	62.4	78.4	88.4	79.9	85.2	82.1	83.8	45.2	76.9	85.5
\(\frac{1}{2}\)	Women	41.5	55.4	53.5	62.7	70.7	68.3	82.2	7.97	83.7	85.9	48.1	69.4	62.9
Korea	Total	3.5	66.3	65.7	29.9	55.3	<b>8</b>	×	×	76.8	76.4	10.3	59.1	67.9
3 3	Men	3.6	78.4	88.4	21.8	49.9	87.8	×	×	88	88.2	7.9	53.4	84.9
	Women	₩. •	46.9	40.8	36.9	29.2	44.9	×	×	79.2	63.2	12.7	63.1	50.1
New Zealand	Total	40.4	60.7	61.8	58.5	78.2	81.9	78.4	74.6	75.7	91.4	46.8	72.0	75.0
	Men	43.0	77.5	77.1	<u>z</u>	81.0	91.1	86.3	76.2	20.9	94:2	47.0	78.4	85.7
	Women	37.4	43.3	47.9	62.4	75.1	71.5	73.0	73.8	80.2	88.4	46.5	65.4	64.9

x Data included in another category/column of the table. OECD 1998 Note: Source:



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Table 6.5 Unemployment Rates of Youth by Level of Educational Attainment and Age Group, 1996

	Below u	Below upper secondary education (%)	condary (%)	npbe eqn	Upper secondary education (%)	dary (%)	npe npe	n-university terti education (%)	Non-university tertiary education (%)		University-level education (%)	All Le	All Levels of education (%)	ducation
Country	Age 15-19	Age 20-24	Age 25-29	Age 15-19	Age 20-24	Age 25-29	Age /	Age	25- 29	Age 20-24	Age 25-29	Age 15-19	Age 20-24	Age 25-29
Malaysia	9.6	4.1	2.0	12.9	5.1	2.0	×		×	7.2	1.2	10.8	4.7	1.9
Thailand	4.4	2.8	9.	6.6	3.6	1.2	5.9		3.7	10.8	2.6	4.6	3.5	2.0
Australia	22.6	19.8	12.0	16.5	10.1	7.1	8.2		5.9	6.7	4.2	20.4	11.9	8.0
Korea	9.8	7.6	3.0	6.7	5.3	3.0	×		×	7.7	4:0	7.5	5.9	3.3
New Zealand	17.3	14.7	10.8	11.2	7.6	3.5	10.8		6.1	6.3	2.3	15.1	9.6	5.9

x Data included in another category/column of the table.

OECD 1998

Source:

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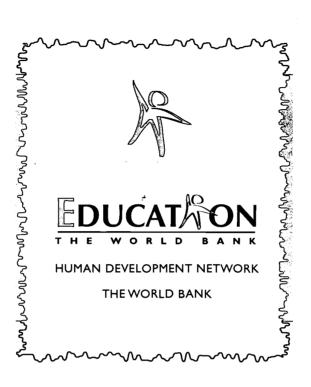
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